Province of British Columbia

MINISTRY OF TRANSPORTATION AND HIGHWAYS

Annual Report

FOR THE FISCAL YEAR

1983/84

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Province of British Columbia

MINISTRY OF TRANSPORTATION AND HIGHWAYS

REPORT

FOR THE FISCAL YEAR

1983/84

ISSN 0706-1897

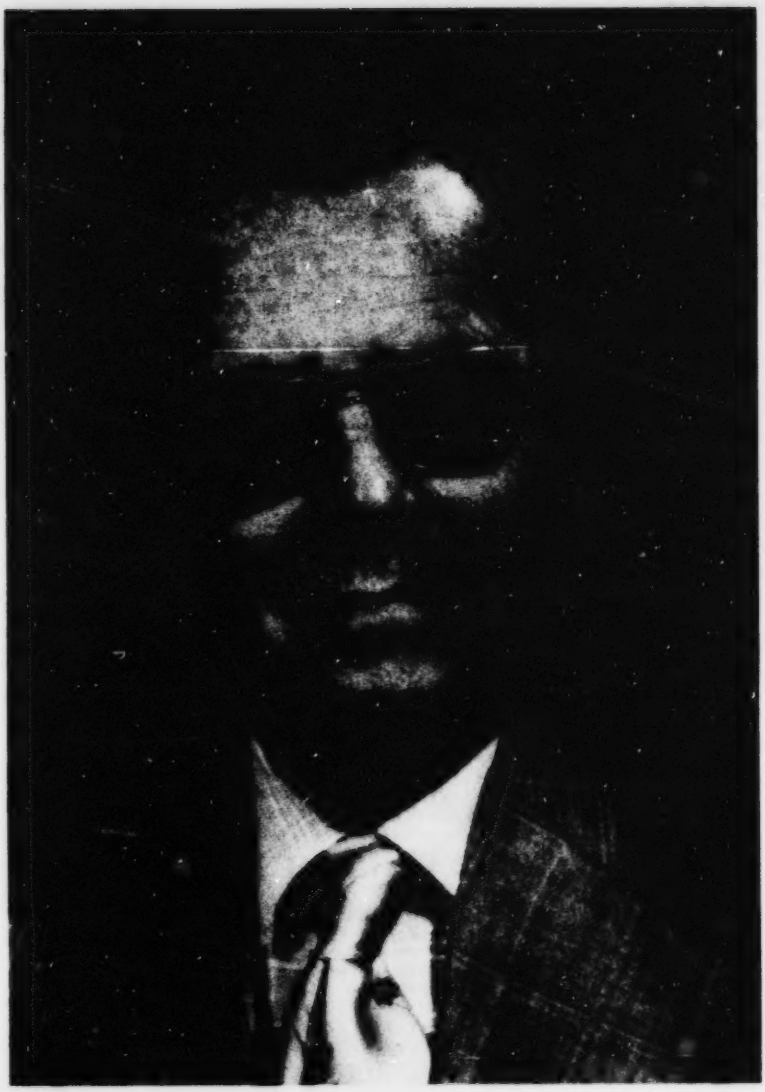
To the Honourable Robert G. Rogers,
Lieutenant Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I respectfully submit the Annual Report of the Ministry of Transportation and Highways for the fiscal year ended March 31, 1984 in compliance with the provisions of the Ministry of Transportation and Highways Act.

ALEX. V. FRASER
Minister of Transportation and Highways

Office of the Minister of
Transportation and Highways
Parliament Buildings, September 28, 1984



The Honourable Alex. V. Fraser,
Minister of Transportation and Highways

Victoria, B.C. September 28, 1984

The Honourable Alex. V. Fraser,
Minister of Transportation
and Highways,
Parliament Buildings,
Victoria, B.C.

Sir:

I am pleased and honoured to present the Annual Report of this Ministry for the fiscal year ended March 31, 1984.

General comments on the year's activity follow with identification of senior officials.

The main body of the report identifies the various branches and their directors with branch reports and statistics.

Respectfully submitted,
A.E. RHODES
Acting Deputy Minister

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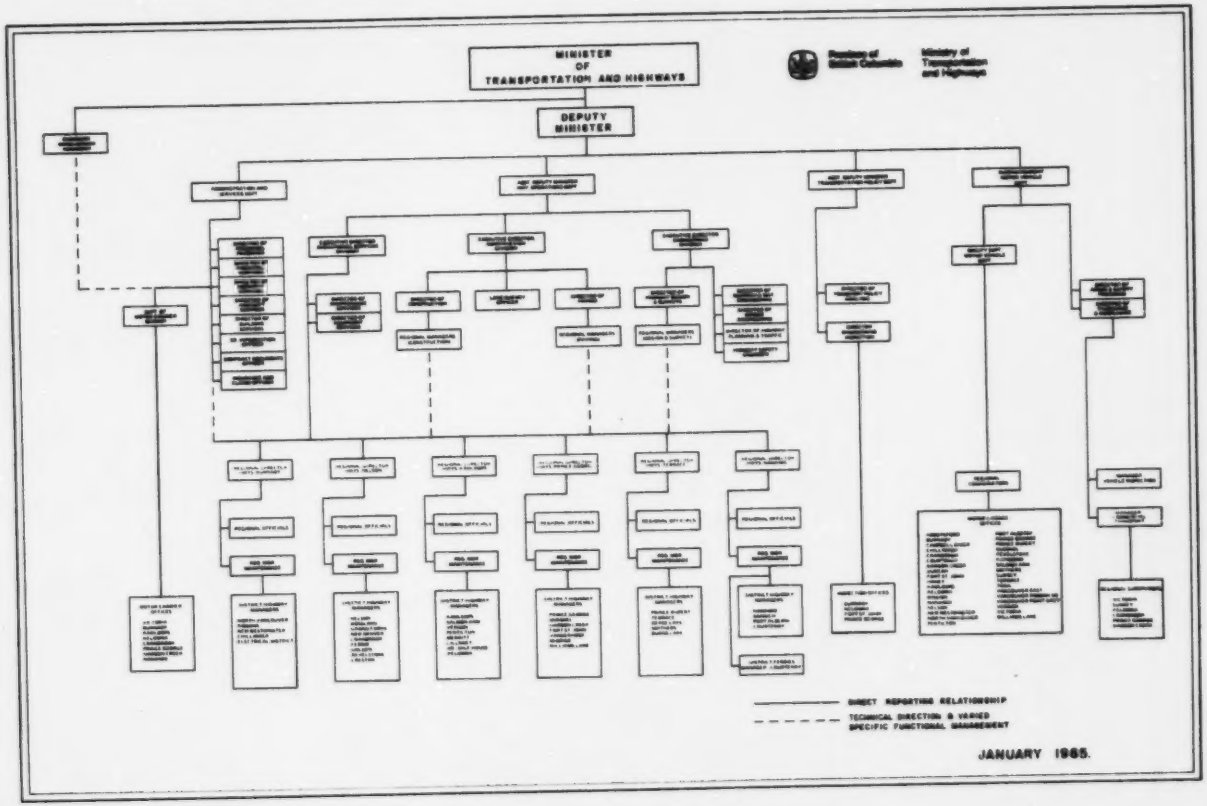

MINISTER
OF
TRANSPORTATION AND HIGHWAYS
DEPUTY
MINISTER
DIRECT REPORTING RELATIONSHIP
TECHNICAL DIRECTION & VARIED
SPECIFIC FUNCTIONAL MANAGEMENT
JANUARY 1965.

ADMINISTRATION AND SERVICES DEPARTMENT

A.E. Rhodes, Acting Deputy Minister

Although the government's restraint program continued to bear on Ministry activities, the reduced staff had a busy year in 1983/84 and kept up a good level of productivity in maintenance, construction and administration.

In personnel services the F.T.E. (full time equivalent) method of staff level reporting was introduced. On this basis the total work force fluctuated from a high of 8,629 employees in July, 1983 to a low of 7,286 in March, 1984. Average for the year was 7,448 F.T.E.'s.

The accident frequency rate for the Ministry showed a small increase in the 1983/84 year as compared to that of 1982/83. The accountable rate was 36.1 accidents per 1,000,000 man hours in 1983/84 compared to 33.4 in the previous year, an increase of 8%.

The increasing use of the Ministry's air services for ambulance work was reflected in the figures showing that 65.24% of the hours logged were for air ambulance flights in 1983/84. Total flying hours was down from the 6,460.5 logged in 1982/83.

Total cost of right-of-way acquisition in 1983/84 was $29,374,730. The number of settlements totalled 958 and a further 1,357 were still under negotiation.

Information Services wrote and distributed 310 news releases, handled major "back to school" and "snow tire" advertising campaigns as well as a number of other public service functions.

Reports from the Insurance and Claims Branch show a further drop in the number of accidents involving vehicles owned by, or leased to, the government from 1,597 in 1982/83 to 1,434 in 1983/84.

Additional statistics and information for each Administration and Services Department branch appear in the individual directors' reports elsewhere in this volume.

HIGHWAYS OPERATIONS DEPARTMENT

T.R. Johnson, P. Eng., Assistant Deputy Minister

Engineering - M.G. Elston, P. Eng., Executive Director

Design and survey work for 1983/84 involved 365 projects covering 2,446.76 km of two and four lane highways. This is a 15% increase over last year's total projects and included work on the Annacis System, Squamish Highway, Highway 97, Highway 97 at Pine Pass and Quesnel.

Geotechnical and Materials Testing Branch were involved in 1,211 investigations in the 1983/84 fiscal year, including a considerable increase in Annacis Crossing project studies. The branch's work includes geotechnical highway design investigations, foundation investigations, stability investigations, aggregate investigations, pavement evaluation, quality control studies and other related work.

The Bridge Branch had a very busy year with the tendering of some $80,000,000 worth of work, about double the norm. Highlight was the receipt of tenders for the Annacis Bridge after three years of intensive design by two consortia.

A major administrative change occurred in 1983/84 when planning and traffic branches were combined under one Director of Planning and Traffic Engineering.

In planning, the branch continued its network planning studies in cooperation with the municipalities, carried out 28 highway planning studies and investigation and analysis of traffic movements, including considerable work on the Annacis System. The approvals section handled some 1,691 subdivision applications which created 4,986 new building lots and added 230 km to the highway system. In traffic, counts were taken at about 800 locations, over half now using the new wire inductance loops in roadway surfaces instead of the older road tube detectors.

Construction - R.G. White, P.Eng., Executive Director

During the 1983/84 fiscal year the Construction Branch administered 57 projects and total value of work under construction was $230,000,000. Of these 20 were day labour, eight by a combination of day labour and contract and the rest by contract. Total expenditure in the 1983/84 fiscal year was expected to be about $130,000,000.

Paving Branch administered 46 contracts and one day labour project. Work on 36 of these was completed in 1983 and the rest was to be finished in 1984. Some 1,066 km of road were surfaced with asphalt pavement, 1,140 km of two-lane equivalent. During the fiscal year some 382 km of highway were legally surveyed with 159 separate survey projects.

Operations - P.J. Carr, P.Eng., Executive Director

Despite the government's continuing restraint program the 1983/84 highway maintenance budget at $206,500,000 was slightly higher than the $201,000,000 of 1982/83. However, inventories also increased ranging from a one per cent increase in the total distance of roads to be maintained (from 44,749 km in 1982/83 to 45,213 km in 1983/84) to a 4.6% increase in the total lane/km of pavement (from 38,893 in 1982/83 to 40,666 in 1983/84).

The fiscal year was marked by great weather extremes, heavy rains in the spring and summer resulted in wide spread and costly washouts and erosion, including heavy damage on the Squamish Highway.

While no additions were made to the equipment fleet during 1983/84, and replacements were kept to a minimum because of continued spending restraints, crews were able to maintain existing equipment satisfactorily during a busy year.

The Ministry's ferry fleet (separate from the B.C. Ferry Corporation service) carried 3,889,936 vehicles and 8,623,196 passengers, up about 2.4% and 1.4%, respectively.

(More details of engineering, construction and operations are contained in the individual director's reports).

TRANSPORTATION POLICY DEPARTMENT

D.A. Kasianchuk, Ph.D., Assistant Deputy Minister

The Transportation Policy Department has a mandate to encourage the development of a balanced transportation system which makes effective use of all modes. Although the Department's program was limited by fiscal restraint, a number of significant activities were undertaken during the year. These included:

Putting forward the Province's position on the Crow Rate and the need for major improvements to the railway system in Western Canada.

Representations to the Canadian Transport Commission concerning applications to abandon the CP Cowichan Subdivision and to discontinue rail passenger service on Vancouver Island.

Representations to the Canadian Transport Commission on a number of air carrier license applications and the need for a comprehensive approach to air services across the northern area of the Province.

Awarding a total of $1,964,130 in grants for improvements to 10 community airports and provided technical assistance as required for those projects.

Completing an assessment of possible transportation developments in the northwest region of the Province.

Working with Transport Canada, the CTC, the other Western Provinces and the national railways to initiate a study of railway capacity in the Fraser Canyon.

Preparation by the B.C. Research Council of traffic forecasts for freight and passenger traffic on Vancouver Island under contract to the Ministry.

The Department is also responsible for approving the design and operation of pipelines, railways and aerial tramways which fall under provincial jurisdiction. Highlights of the 1983/84 program include:

Completion of a total of about 3,000 inspections of railway, pipeline and aerial tramway projects and operations. These included routine inspections, acceptance tests, and accident investigations.

Monitoring construction of the BCR branchline serving the Northeast Coal Development, including the installation of overhead power supply for electric locomotives.

Certifying operating rules for the BCR's electrified lines.

Monitoring construction of seven new industrial railways, five new tramway installations, and about 130 km of new pipeline in addition to numerous modifications to existing lines and facilities.

MOTOR VEHICLE DEPARTMENT

P.K. Jackman, Acting Superintendent of Motor Vehicles

The wide range of vehicle or driver related programs administered by the Motor Vehicle Department was impacted by decisions made in 1983 to an extent that a full review of the objectives had to be undertaken.

The most significant change implemented in 1983 was cancellation of the mandatory vehicle inspection program carried out through the Department's inspection stations located in the metropolitan Vancouver area, Victoria and Nanaimo. A new mandate was developed which will see a province-wide inspection program with emphasis being placed on commercial vehicles. The first phase of this program is scheduled to be implemented in the first quarter of 1985.

The licence/permit sales program carried out through the Motor Vehicle Department's field offices and Government Agents' offices was also impacted by the decision that saw the withdrawal of services by all Government Agents except those located in Kelowna, Cassiar, Atlin, Stewart, and Queen Charlotte City, and by the decision to expand the authority granted to Autoplan Insurance Agents. This action resulted in an additional 29 private sector agents being appointed as Agents of the Superintendent of Motor Vehicles, to bring the total appointments to 79. In 20 other communities, the Department received approval to establish limited sales offices. These offices were established by amalgamating all of the Department's operations into once central office, including duties previously performed through Government Agencies. The Department now operates 35 offices in larger centres throughout the Province.

Changes to the weigh scale operation were less dramatic. The changes saw the closure of the Ruskin Weigh Scale with other low volume scales being operated on a random basis only. The total number of weigh scales operated by the Department is now 34. In addition, 18 portable units are operated in strategic areas of the Province.

Highlights of other program changes or new programs saw the signing of a contract with a British Columbia firm for the manufacture of number plates. The awarding of the contract to a British Columbia firm will see number plates being manufactured locally for the first time since 1977.

A project was started that will see the implementation of an on-line automated driver's licence system by January, 1985, which will allow for instant updating of a driver record for 35 field offices. Once implemented, service to the public will be greatly enhanced. This is the first phase of the automation of licence sales offices and weigh scale operations.

The development of legislation directed at the transport of dangerous goods proceeded in conjunction with the Federal Government. The target set in 1983 is to implement the provincial aspect of this program in 1985.

Driver control still remains a high priority and new concepts are being considered, with particular emphasis being aimed at the alcohol involvement problem.

To allow the Department to analyze driver behaviour problems in a more responsive manner, the vehicle accident reporting system was restructured to allow for specialized reports to be extracted through the use of the state-of-the-art technology.

The foregoing provides highlights of activity within the Motor Vehicle Department programs carried out through the Vehicle and Driver Licence Divisions, the Commercial Transport Division, the Vehicle Inspection Division, the Standards and Compliance Branch, and the safety programs of the Administration and Safety Branch.

The revamping of programs and objectives would not have been possible without the dedication of all the Department's employees.

SENIOR MINISTRY PERSONNEL
As At March 31, 1984

The Honourable Alex. V. Fraser, Minister of Transportation and Highways

A.E. Rhodes, Acting Deputy Minister, Transportation and Highways

ADMINISTRATION & SERVICES DEPARTMENT

A.R. Limacher, Director of Personnel Programs
S.E. Price, Director of Financial Services
P.S. Perry, Director of Aircraft Services
A.C. Brown, Director of Property Services
D. Grey, Director of Building Services
R.J. Baines, Senior Information Officer
R.A. Fisher, Contract Documents Officer

TRANSPORTATION POLICY DEPARTMENT

D.A. Kasianchuk, Ph.D., Assistant Deputy Minister
G.A. Clark, Director, Transportation Policy Analysis
F.H. Christensen, P.Eng., Director, Engineering Inspection

MOTOR CARRIER COMMISSION

G.M. Morris, Chairman
A.R. Fitch, Superintendent of Motor Carriers

MOTOR VEHICLE DEPARTMENT

P.K. Jackman, Acting Superintendent of Motor Vehicles
Vacant, Deputy Superintendent Vehicle and Driver Licencing
P. Toogood, P.Eng., Director of Standards and Compliance
J.F. Phillips, Director Administration and Safety Programs

HIGHWAY OPERATIONS DEPARTMENT

T.R. Johnson, P.Eng., Assistant Deputy Minister
M.G. Elston, P.Eng., Executive Director, Engineering Division
E.E. Readshaw, P.Eng., Director of Highway Design and Surveys
J.W.G. Kerr, Director of Geotechnical and Materials Engineering
L.C. Johnson, P.Eng., Director of Bridge Engineering
J. Lisman, P.Eng., Highway Safety Engineer
D.R. Parkes, Director of Highway Planning and Traffic Engineering
R.G. White, Executive Director, Construction Division
N.R. Zapf, Director of Construction
Vacant, Director of Paving
P.J. Carr, P.Eng., Executive Director, Operational Services Division
Vacant, Director of Maintenance Services
E.A. Lund, P.Eng., Director of Equipment Services

HIGHWAY FIELD OPERATIONS

Region 1

W.E. Mercer, P.Eng., Regional Director, Highways
Vacant, Regional Manager, Maintenance
R.A. Fru, P.Eng., Regional Manager, Construction
G. Garlinge, Regional Manager, Highway Design and Surveys
B.W.R. Eastman, P.Eng., Regional Geotechnical and Materials Engineer
Vacant, Regional Manager, Paving
W.A. Montgomery, Regional Property Negotiator
T.R. Yearsley, Regional Manager, Equipment Services
R. Winbow, District Highways Manager
T.M. Forsyth, District Highways Manager
H.F. Blunden, District Highways Manager
P.S. Dunn, District Highways Manager
T.A. Tasaka, P.Eng., Dock Engineer
H. Gutteridge, District Electrical Manager

Region 2

R.W. Gittins, P.Eng., Regional Director, Highways
D.C. MacVicar, P.Eng., Regional Manager Maintenance
A.W. Slater, P.Eng., Regional Manager, Construction
A.W.G. Smith, Regional Manager, Highway Design and Surveys
G.C. Stock, P.Eng., Regional Geotechnical and Materials Engineer
J.F. Meidinger, P.Eng., Regional Manager, Paving
G.A. Ward, Regional Property Negotiator
J.T. Evans, Regional Manager, Equipment Services
S.J. Sviatko, District Highways Manager
W.A. Budden, District Highways Manager
J.E. Steven, District Highways Manager
B.D. Hunter, P.Eng., District Highways Manager
D.L. Byers, P.Eng., District Highways Manager
E.C. Redman, District Highways Manager
W.J. McDonald, District Highways Manager

Region 3

W.M. Sproul, P.Eng., Regional Director, Highways
H.J. Kelsall, P.Eng., Regional Manager Maintenance
Vacant, Regional Manager, Construction
P.J. Bonser, P. Eng., Regional Manager Highway Design and Surveys
P. Barnes, P.Eng., Regional Geotechnical and Materials Engineer
F.H. Sawatzky, Regional Manager, Paving
J. Mintak, Regional Property Negotiator
R.E. Johnson, Regional Manager, Equipment Services
G.J. Sutherland, P.Eng., District Highways Manager
R.E. McKeown, District Highways Manager
H.L. Good, District Highways Manager
G.F. Kazakoff, District Highways Manager
H.F. Popoff, District Highways Manager
J.P. Wrobel, P.Eng., District Highways Manager
D.L. Oliver, District Highways Manager
J.W. Lay, District Highways Manager
L.S. Fransson, District Highways Manager

Region 4

L.A. Broddy, P.Eng., Regional Director, Highways
K.E. Bespflug, P.Eng., Regional Manager, Maintenance
D. Chisholm, Regional Manager, Construction
Vacant, Regional Manager, Highway Design and Surveys
Vacant, Regional Geotechnical and Materials Engineer
F.E. Martens, Regional Manager, Paving
E.S. Gowman, Regional Property Negotiator
G.A. Warrington, Regional Manager, Equipment Services
S. Young, P.Eng., District Highways Manager
A.N. Hepp, District Highways Manager
S.D. Gladysz, District Highways Manager
R.E. Harrison, P.Eng., District Highways Manager
A.W. Horsnell, District Highways Manager
S.Paloposki, District Highways Manager
F.Rizzardo, District Highways Manager

Region 5

D.P. Doyle, P.Eng., Regional Director, Highways
N. Hope, P.Eng., Regional Manager, Maintenance
D.N. Moore, P.Eng., Regional Manager, Construction
D. Nyland, P.Eng., Regional Geotechnical and Materials Engineer
S.C. Christensen, Regional Manager, Paving
J. McDonell, Regional Property Negotiator
E.J. Robinson, Regional Manager, Equipment Services
W.E. Stanley, District Highways Manager
D.S. Kirk, District Highways Manager
H.A. Ronmark, District Highways Manager
D.H. Hutton, District Highways Manager

Region 6

B.A. L'Hirondelle, P.Eng., Regional Director, Highways
A.L. Freebairn, P.Eng., Regional Manager, Maintenance
R.K. Dash, Regional Manager, Construction
B.T. Nielsen, P.Eng., Regional Manager, Paving
R.E. Burnett, Regional Property Negotiator
A.J. Montador, P.Eng., Regional Geotechnical and Materials Engineer
J.A. Cambrey, Regional Manager, Highway Design and Surveys
S. Cutt, Regional Manager, Equipment Services
J.W. Morris, District Highways Manager
J.C. Jensen, District Highways Manager
R.W. Ellis, District Highways Manager
W.R. Ball, District Highways Manager
P.D. Hughes, District Ferry Manager

ADMINISTRATION AND SERVICES

REPORT OF THE DIRECTOR OF PERSONNEL PROGRAMS

A.R. Limacher

In the 1983/84 fiscal year, the concept of F.T.E. reporting was introduced for monitoring staffing levels. The Ministry was allotted an F.T.E. budget of 7,824 for the year. The total work force fluctuated from a high of 8,629 employees in the month of July 1983, including auxiliary employees of whom 287 were summer students, to a low of 7,286 employees in the month of March 1984, including auxiliaries. Our average usage for the year was 7,448 F.T.E.'s.

The staff of the Branch was reduced through attrition by 18%. Staffing and competition activities continued at a low level due to restraint. Other activities varied due to new priorities, collective bargaining and the planning and implementation of major reductions in our work force.

Branch personnel were again involved in the planning of essential services and information processing prior to and during the B.C. Government Employees' Union strike in the Fall of 1983. The Director assisted the Government Employee Relations Bureau with negotiation of the collective agreement and line and personnel staff were involved in negotiation of some aspects of component agreements and the B.C. Professional Employees' Association agreement.

Reports concerning the functional sections of the Branch are detailed below.

PERSONNEL OPERATIONS AND OCCUPATIONAL HEALTH AND SAFETY PROGRAMS SECTION

This section, headed by a manager, provides personnel and occupational health and safety services to the four Departments of the Ministry with eight regional personnel officers, one senior and six regional occupational health and safety officers.

Due to the restraint program and consequent downsizing of the public service, recruitment activity was reduced considerably from recent years. Positions posted for competition during the year totalled 79. The Public Service Commission advertised 50 with the balance being posted by the Ministry. The section also responded to six promotional appeals.

In 1983, the Ministry reported a total of 591 compensable injuries, up from the 529 injuries reported in 1982. Of these, 278 injuries resulted in lost time beyond the day of the accident. Also included were two fatalities to Ministry employees. A total 8,383 days were lost due to injury arising out of employment. This was an improvement over the past year.

The direct cost for compensation, including payouts for disabilities and medical aid costs, in 1983, totalled $1,642,671.83, up from $1,517,355.72 in 1982.

The Ministry had a total of 12,068,075 hours of work exposure resulting in an accountable accident frequency of 36.1 accidents per one million hours worked. This compares with 33.4 in 1982.

Region 3 (Nelson) won the Honourable Minister's Safety Trophy for the lowest countable accident frequency among Regions. Regional Safety Award winners were Burns Lake, Nelson, Penticton, McBride, New Westminster and Courtenay. The Omineca Princess (Francois Lake Ferry) was the recipient of the Marine Service Award for the second consecutive year.

The Ministry currently has 80 joint union/management safety and health committees who have responsibility to make recommendations on safety and health in the workplace.

The hearing conservation program resulted in testing of 2,371 employees at a cost of $29,637.50. Additional on-going training was provided in first aid, traffic control, dangerous goods emergencies, fire protection, materials handling, welding safety, use of hand tools, and supervisory training in accident prevention. In 1983, there were 305 W. C. B. inspections of regional operations.

Under the Long Term Disability Plan, the Ministry had 209 employees off in excess of six months due to injury or illness. The total cost for Ministry employees was $1,036,515.93 in benefits paid during 1983.

Through Screening Committee, the Ministry placed 18 employees, who had been severely ill or injured, back into the workforce. This is out of a total of 65 employees who had received attention at Screening Committee in 1983. New cases numbered 33.

EMPLOYEE PLANNING AND DEVELOPMENT SECTION

The fiscal year, 1983/84, was marked by new initiatives in order to cut costs and increase desirable productivity.

Staff levels were reduced through attrition; productivity was increased 30% by implementing additional new essential programs and, operational expenditures reduced by 15%.

Specific Highlights

The manpower development program now offers 32 British Columbia Institute of Technology (B.C.I.T.) courses, mainly technical subjects and packaged for individual study at home. There are 2,689 employees registered on the Program and they have completed 3,918 courses over the past six years.

Two hundred fifty-seven employees have earned Level 1 B.C.I.T. certificates and 28 employees have graduated to Level 2.

B.C.I.T. officials have formed an accreditation group to assess our courses and award formal educational credit to Ministry employees who meet B.C.I.T. criteria. This accreditation will be formalized by September, 1984.

Supervisory and Management Development

The new supervisory development program Module 1 "Effective Leadership" is well established. One hundred ten supervisors have graduated and now qualify for advanced training in labour relations, performance planning and review, and instructional skills.

The first module of our new middle management development program has been designed, tested and implemented. Fourteen middle managers have successfully graduated and now qualify for advanced programs.

We plan to train 200 supervisors and 90 managers in 1984/85 in order to overcome losses caused by major retirements.

All Ministry management and supervisory programs have been designed specifically to meet the requirement to cut costs, increase productivity and improve labour relations.

Trades/Apprentice Training

Analyses of trades training for mechanics, welders and auto body staff have been completed.

A major survey of Ministry requirements for marine engineers and apprentices has been completed. This survey will aid in developing formalized marine engineer training, to meet federal requirements and the potential turnover of staff, caused by retirement.

Trades upgrading courses were instructed in the following topics:

- Instructional skills for journeymen and welders
- Electrical upgrading for journeymen and electricians
- Welding upgrading
- Diesel engine overhaul and maintenance

Apprentices

Three hundred fifty-one man weeks of in-house specialized training was delivered with an additional 295 man weeks of trades vocational training.

Sixteen apprentices graduated and were appointed to journeyman positions.
A further 19 apprentices were hired to meet manpower demands.

Educational Media Progams

The following programs were delivered:

- 26 in Equipment Operation
- 21 in Safety Awareness and Training
- 9 in Road Maintenance
- 6 in Mechanical Maintenance
- 4 in Marine Training
- 4 in Labour Relations and Personnel
- 3 for Employee Orientation
- 3 in Paving Practices
- 2 for Technical Skills Upgrading
- 4 for General Ministry Operations

All of these programs have been designed to improve safety practices and productivity, and reduce operational costs.

Professional/Technical Development

The following courses were designed and delivered to our Professional Engineers and Technologists:

- Scheduling Maintenance
- Effective Technical Presentations
- Management Development
- Pavement Maintenance
- Problem Solving and Decision Making
- Effective Report Writing
- Supervisory Skills

A major examination of professional development requirements for engineers and technologists is underway. This study will aid in developing clearly defined career paths and identifying suitable training programs to enable our engineering personnel to progress to more senior Ministry positions.

Three hundred participant days of training were delivered via the Knowledge Network along with a further 222 participant days of formal classroom training, again, to increase productivity and reduce operational costs.

Equipment Operating Training

A total of seven grader courses were conducted with 42 personnel successfully completing this phase of the Equipment Operator Training Program.

Five hazard avoidance courses, one safety orientation course on light hydraulic cranes, and one loader course were also attended by Ministry personnel.

In 1983/84, Ministry vehicles and equipment were operated over 74 million kilometers. Five hundred twenty-two accidents were reported, of which 312 (59%) were considered preventable. Throughout the Province, our Regional Driver Trainers and Training Operators delivered numerous on-the-job training sessions, in order to: increase safety, reduce accidents and prevent costly machine downtime. Finally, our first comprehensive Equipment Operator Training Manual was produced by the regional driver trainer in Prince George.

All Ministry training staff are to be congratulated on a first class job, carried out under trying conditions. Ministry training programs have played a major part in reducing costs and increasing productivity.

EMPLOYEE RELATIONS SECTION

During 1983/84, the Employee Relations Section of Personnel Programs was involved in component bargaining, grievance handling (responses at Step 3 and general contract interpretation), preparation for arbitration, strike contingency planning and development of personnel policy on behalf of the Ministry.

The participation in collective bargaining ranged from direct involvement at the component bargaining table to coordination of research and information for those at master bargaining with the B.C. Government Employees' Union and the Professional Employees' Association.

A total of 182 new grievances (Steps 2 and 3) were processed by the Section during the year. During 1983, a total of 130 grievances were processed through the Government Employee Relations Bureau (filed at arbitration). Of these 130 grievances, 81 were withdrawn by the Union, 40 were settled with mutually agreeable terms, four were heard at fast track arbitration and five were heard at a formal arbitration hearing.

The Manager, employee relations was appointed as Vice-Chairman of the Ministry strike contingency planning committee. In this capacity, this Section was involved in establishing essential services to be continued, preparing for Labour Relations Board hearings and deployment of management staff to essential functions both within and outside the Ministry.

ORGANIZATION AND CLASSIFICATION SERVICES SECTION

This Section provides establishment, organization and classification services to the Ministry. During the fiscal year, the work of the Section was considerably different from normal. The Section had a major role in modifying the establishment and organization as a result of the reduction of the approved work force in the Ministry. The effect of the reduction involved modification of practically every organizational unit throughout the Ministry.

Major studies completed over the year were as follows.

a) Driver Licence section - completely reorganized and approximately 120 positions reclassified.
b) Motor Vehicle Inspection section - reduced from approximately 150 employees to 25 - Section reorganized and 15 positions reclassified.
c) Motor Vehicle regional offices - completely reorganized.
d) Ferry shift captains study resulted in new draft specifications being prepared in consultation with the Government Employee Relations Bureau. Treasury Board approval and discussion with the bargaining agent is still required.
e) The majority of the trades classification system was implemented affecting mechanics, welders, plumbers, carpenters, radio and other electronic technicians, sign painters and electricians.
f) Conversion to the bridgeworker trade is nearing completion.
g) The Manager of the Section participated in the evaluation team for the new financial officer series.

ADMINISTRATIVE SUPPORT SERVICES SECTION

This Section provides administrative support to other Sections of the Branch and processes all personnel documentation, appointments and monitors over 10,000 personnel related files.

The Staff were involved in recording the major changes made to the Ministry's approved annual work force.

Removal and relocation expenses were processed for 68 employees at a total cost of $462,790.

Retirement submissions were processed for 141 employees with 66 of these being eligible for the Meritorious Service Scroll. Thirty-five Ministry employees with 35 years of continuous service were presented with gold watches and 39 employees with 25 years of continuous service were given special recognition at a Government ceremony.

REPORT OF THE DIRECTOR OF FINANCIAL SERVICES

S.E. Price

The following pages disclose in detail the Ministry of Transportation and Highways expenditures for the fiscal year 1983-84.

The total gross expenditure of $766,241,025 for the period, represents an increase of $195,592,424 or 34.28 percent over the preceding fiscal period.

The Highway Maintenance costs have increased marginally by $13,578,587 or 6.56 percent over the previous fiscal year, which represents normal inflationary cost increases plus additional costs to service an increase in road inventory. Winter maintenance costs remained almost the same with the Province experiencing a relatively mild winter thereby saving considerable costs in snow removal and sanding operations.

The Highway Construction Capital costs increased significantly with the issue of special funds under the Employment Development Account. Expenditures increased from $262,237,838 in the fiscal year 1982-83 to $447,678,599 in the fiscal year 1983-84, an increase of $185,440,761 or 70.71 percent.

Major engineering and construction work continued on the Fraser River Crossing (Annacis), Northeast Coal Development Access Highway from Chetwynd to Tumbler Ridge and on the new Coquihalla Highway route from Hope to Merritt. Other major construction activities included -

- Greenville Bridge construction over the Nass River
- Highway 24 reconstruction - Bridge Lake - Little Fort
- Maryhill Bypass construction
- Kamloops Bridge construction over the North Thompson River
- Fort Nelson River Bridge construction
- Okanagan Lake Bridge - Kelowna - Anchor Replacement
- Foothills Boulevard construction - Prince George
- Yellowhead Highway reconstruction - Tyee section
- Kalum Lake road reconstruction - Terrace
- Highway 37 construction - Cranberry Crossing - Derrick Creek
- Fellers Heights road reconstruction
- Highway 99 Garibaldi - Horseshoe Bay - Squamish - road and bridge construction

The Motor Vehicle Department expenditures increased slightly from $24,765,105 in 1982/83 to $25,294,846 in 1983/84, an increase of 2.14 percent. This minor increase was achieved by implementing several restraint measures during the year including reducing the Motor Vehicle Inspection program.

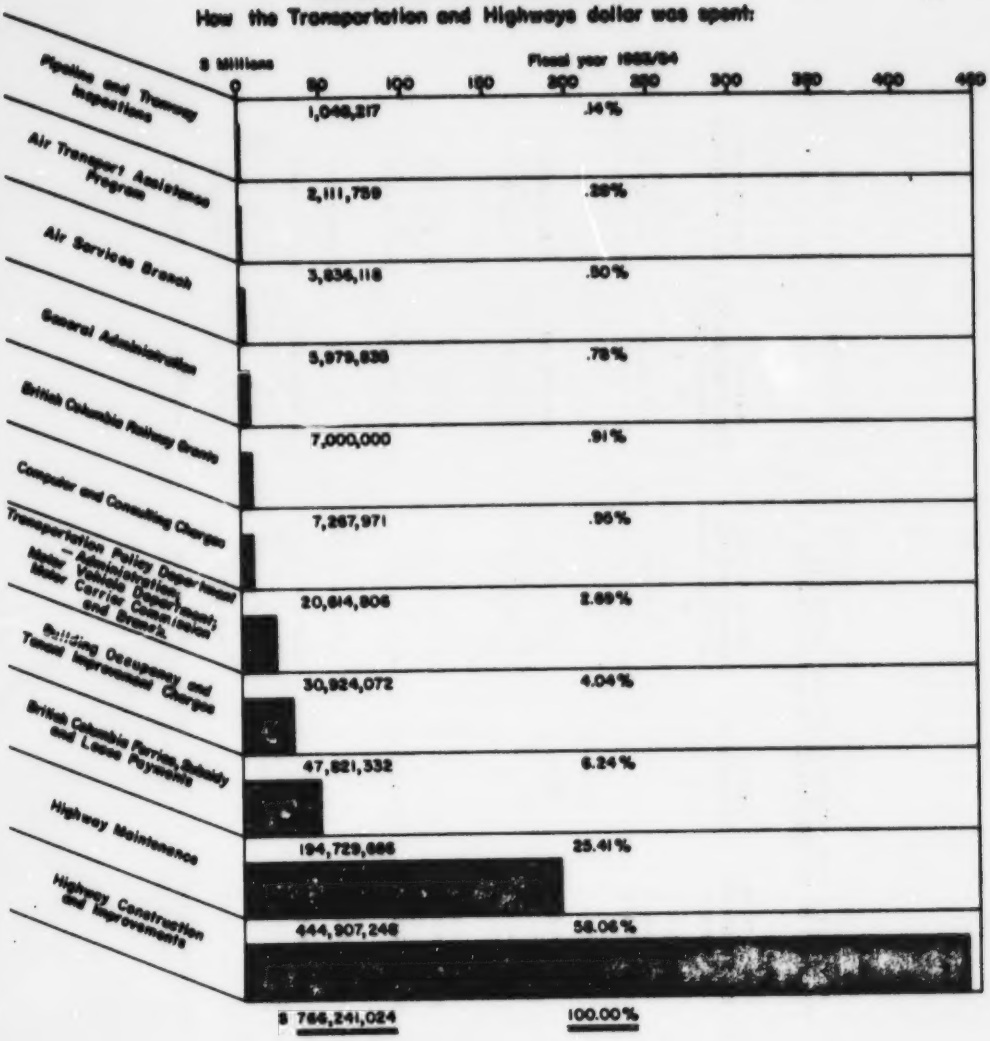
The Air Services Branch expenditures decreased from the previous fiscal period by $1,224,434 or 23.22 percent. This reduction was due to the circumstance that no major modifications nor aircraft purchases took place in the fiscal period. No aircraft were sold during the year.

The Ministry continued to provide, through the Air Transport Assistance Program, grants to Municipalities, Regional Districts and Societies for the development, construction, and improvement of local air transport facilities with total funds expended of $2,111,759 compared to $1,698,883 in the 1982/83 fiscal year.

The Ministry provided a ferry subsidy of $43,000,000 to the B.C. Ferry Corporation, the same as in the 1982/83 fiscal period.

The Ministry provided a grant to the B.C. Rail Company of $7,000,000, the same as in the previous fiscal year, to cover the operating loss on the Fort Nelson Extension and provide assistance for the passenger service.

How the Transportation and Highways dollar was spent:



MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURES, FISCAL YEAR 1983-84

VOTE NUMBER	VOTE DESCRIPTION	1983-84 VOTE ESTIMATES $	1983-84 TOTAL EXPENDITURES CASH BASIS $	1983-84 ACCRUALS $	1983-84 TOTAL EXPENDITURES ACCRUAL BASIS $	1983-84 NET OVER(UNDER) EXPENDITURES $	1982-83 TOTAL EXPENDITURES $
76	Minister's Office	200,936.00	162,649.96		162,649.96	(38,286.04)	196,741.03
77	Administration and Services Department:	9,035,729.00					
	-General Administration -Highways	8,076,888.00	7,162,907.41	12,802.13	7,175,709.54	(901,178.46)	9,322,619.69
	-General Administration -Transportation	958,841.00	945,517.19		945,517.19	(13,323.81)	813,239.57
78	Highway Operations Department:	468,289,850.00					
	-Highway Maintenance	220,034,448.00	220,569,652.79	155,363.91	220,725,016.70	690,568.70	207,146,430.22
	-Highway Construction and Improvements	248,255,402.00	243,895,757.73	(756,752.47)	243,139,005.26	(5,116,396.74)	244,397,213.32
79	Hydro Development-Highways	10.00	5,935,573.41		5,935,573.41(1)		17,800,247.80
80	Motor Vehicle Department	25,400,685.00	25,286,845.88	8,000.00	25,294,845.88	(105,839.12)	24,765,105.65
81	Motor Carrier Commission and Branch:	1,258,273.00					
	-Motor Carrier Branch	1,041,378.00	938,550.87		938,550.87	(102,827.13)	1,799,960.44
	-Motor Carrier Commission	216,895.00	175,297.19		175,297.19	(41,597.81)	352,290.29

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURES, FISCAL YEAR 1983-84
- Continued -

VOTE NUMBER	VOTE DESCRIPTION	1983-84 VOTE ESTIMATES $	1983-84 TOTAL EXPENDITURES CASH BASIS $	1983-84 ACCRUALS $	1983-84 TOTAL EXPENDITURES ACCRUAL BASIS $	1983-84 NET OVER(UNDER) EXPENDITURES $	1982-83 TOTAL EXPENDITURES $
82	Transportation Policy Department:	5,721,481.00					
	-Administration - Transportation Policy Dept.	293,109.00	288,793.63		288,793.63	(4,315.37)	231,105.24
	-Transportation Policy Analysis Branch	3,831,784.00	2,645,814.84		2,645,814.84	(1,185,969.16)	2,358,023.05
	-Engineering Inspection Branch	1,596,588.00	1,341,207.04		1,341,207.04	(255,380.96)	1,332,303.31
83	Air Services Branch	4,385,176.00	4,047,690.40		4,047,690.40(2)	(337,485.60)	5,272,123.97
84	Crown Corporation Assistance:	54,822,700.00					
	-British Columbia Ferry Corporation	47,822,700.00	47,821,332.35		47,821,332.35(3)	(1,367.65)	47,820,819.34
	-British Columbia Railway Company	7,000,000.00	7,000,000.00		7,000,000.00		7,000,000.00
	Employment Development Account		202,180,488.58	(3,576,467.94)	198,604,020.64	198,604,020.64	
Bill 7	Special Funds Act, 1980 (Fraser River Crossing)						40,377.64
TOTAL, GROSS EXPENDITURES		569,114,840.00	770,398,079.27	(4,157,054.37)	766,241,024.90(4)	191,190,621.49	570,648,600.56

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURES, FISCAL YEAR 1983-84
- Continued -

NOTES: (1) The sum of $5,935,573.41 is recoverable from B. C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.

(2) Reflected in this figure is a recovery credit of $299,862.00 received from "Other Ministries and Outside Parties" using the Air Services Branch.

(3) Comprised of the Annual Subsidy to the B.C. Ferry Corporation ($43,000,000.) and lease payments ($4,821,332.35) for three vessels operated by the Corporation.

(4) Reflected in this figure is the credit sum of $4,157,054.37 which represents accrued credits applicable to fiscal year 1983-84.

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1983-84

1982-83 $	1982-83 $	1982-83 $	1982-83 $		1983-84 $	1983-84 $	1983-84 $	1983-84 $
196,741.03				**Vote 76-Minister's Office**				162,649.96
				Vote 77-Administration and Services Department:				
	9,322,619.69			-General Administration - Highways			7,175,709.54	
10,135,859.26	813,239.57			-General Administration - Transportation			945,517.19	8,121,226.73
				Vote 78-Highway Operations Department:				
				Highway Maintenance:				
			154,054,501.29	Roads:	164,355,345.36			
			35,923,545.00	-Snow removal	36,251,435.00			
		179,549,906.36	10,428,139.93cr	-Intra-Ministry materials usage credits	11,046,892.00cr	189,559,888.36		
		9,892,983.31		Bridges		9,272,095.62		
		30,067,261.27		Ferries		31,271,460.24		
		47,437,055.34		Machinery maintenance and operation:		50,349,136.15		
	207,146,430.22	59,800,776.06cr		-Intra-Ministry equipment rental credits		59,727,563.67cr	220,725,016.70	
				Highway Construction and Improvements:				
				Roads:				
		89,989.53		-Archaeological explorations		84,756.30		
		295,551.97		-Equipment capital purchases		1,031,956.79		
		8,188,238.96		-Geotechnical and materials engineering		7,155,600.17		
		483,115.27		-Highway safety measures		544,263.80		
		623,361.06		-Legal surveys		656,093.51		
		1,233,177.92		-Municipal grants and contributions		1,255,474.32		
		223,840.03		-Radio-mobile installations		579,529.35		
		19,014,834.90		-Rights-of-way and property purchases		36,519,957.97		

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1983-84

	1982-83					1983-84		
$	$	$	$		$	$	$	$
				Vote 78-Highway Operations Department - continued				
		121,170,562.38		-Roads construction		114,860,656.12		
		618,135.31		-Roadside development and landscape		743,763.73		
		490,889.82		-Scientific and technical equipment		586,245.26		
		1,204,492.71		-Secondary highways		1,506,743.75		
		3,703,179.46		-Signals, lighting etc.		4,498,050.77		
		8,072,705.14		-Surveys generally		8,113,432.75		
				Bridges and Ferries:				
			38,414,658.98	-Bridges	23,700,625.20			
		47,068,751.64	8,654,092.66	-Ferries	350,777.37	24,051,402.57		
		695,194.91		Ferry landings		294,757.62		
451,543,643.54	244,397,213.32	31,221,192.31		Paving		40,656,320.48	243,139,005.26	463,864,021.96
				Vote 79-Hydro Development - Highways:				
		12,551,659.12		Roads construction(Gross Expenditure)			2,646,230.06	
		2,510,938.46		Bridges..... (Gross Expenditure)			822,193.95	
	17,800,247.80	2,737,650.22		Paving..... (Gross Expenditure)			2,467,149.40	5,935,573.41(1)
				Vote 80-Motor Vehicle Department:				
				Administration and Safety Branch:				
	570,782.06			-Administration - Administration and Safety Branch			592,102.58	
	538,742.24			-Road User Safety Program			466,349.71(2)	
				Vehicles and Drivers Licencing Branch:				
	144,072.19			-Regional Coordinator's Program			184,085.14(3)	
	6,631,909.50			-Vehicle Licencing Division			7,852,734.65	
	8,246,822.91			-Drivers Licencing Division			8,657,782.53	
				Standards and Compliance Branch:				
	4,039,435.37			-Commercial Transport Division			4,106,940.52	
	4,506,930.08			-Motor Vehicle Inspection Division			3,374,947.94	
24,765,105.65	86,411.30			-Standards and Industrial Roads Division			59,902.81	25,294,845.88

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1983-84

1982-83 $	1982-83 $	1982-83 $		1983-84 $	1983-84 $	1983-84 $	1983-84 $
			Vote 81-Motor Carrier Commission and Branch:				
	1,799,960.44		Motor Carrier Branch			938,550.87	
2,152,250.73	352,290.29		Motor Carrier Commission			175,297.19	1,113,848.06
			Vote 82-Transportation Policy Department:				
			Administration - Transportation Policy Department			288,793.63	
	231,105.24		Transportation Policy Analysis Branch:				
		650,139.27	-Administration, Grants and Subsidies		534,055.73		
			-Air Transport Assistance Program		2,111,759.11	2,645,814.84	
	2,358,023.05	1,696,883.78					
3,921,431.60	1,332,303.31		Engineering Inspection Branch			1,341,207.04	4,275,815.51
			Vote 83-Air Services Branch:				
	6,172,365.69		Expenditures			4,347,552.40	
5,272,123.97	900,241.72cr		Recoveries			299,862.00cr(4)	4,047,690.40
			Vote 84-Crown Corporation Assistance:				
	47,820,819.34		British Columbia Ferry Corporation			47,821,332.35(5)	
54,820,819.34	7,000,000.00		British Columbia Railway Company			7,000,000.00	54,821,332.35
			Employment Development Account:				
			Roads			94,867,103.10	
			Bridges			41,997,831.21	
			Ferry Landings			334,123.05	
			Paving			61,404,963.28	198,604,020.64
			Bill 7 -Special Funds Act, 1980 (Fraser River Crossing):				
40,377.64			Bridges				
570,640,690.56			TOTAL, GROSS EXPENDITURE				766,241,024.90(6)

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1963-64
-Continued-

NOTES: (1) The sum of $5,835,573.41 is recoverable from B.C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.

(2) Known as "Safety Programs" in fiscal year 1962-63.

(3) Accounted for in the Administration, Vehicle and Drivers Licencing Branch expenditure figure in fiscal year 1962-63.

(4) Reflected in this figure is a recovery credit of $299,862.00 received from "Other Ministries and Outside Parties" using the Air Services Branch.

(5) Comprised of the Annual Subsidy to the B.C. Ferry Corporation ($43,000,000.) and lease payments ($4,821,332.35) for three vessels operated by the Corporation.

(6) Reflected in this figure is the credit sum of $4,157,054.37 which represents accrued credits applicable to fiscal year 1963-64.

DETAILS OF EXPENDITURES BY APPROPRIATIONS AND ACTIVITIES, AND BY STANDARD EXPENDITURE CLASSIFICATIONS

VOTE 76

MINISTER'S OFFICE

This vote provides for the Office of the Minister of Transportation and Highways, including the minister's salary and expenses and those of the immediate staff.

1982-83 Appropriations	1982-83 Actual Expenditures	Group account classification	1983-84 Appropriations	1983-84 Actual Expenditures
	166,870	Salaries		154,946
	29,871	Supplies and services		7,704
228,769	196,741		200,936	162,650

VOTE 77

ADMINISTRATION AND SERVICES DEPARTMENT

This vote provides for the executive direction of the ministry, including the offices of the deputy minister and two assistant deputy ministers, and for the administrative and support services to the operational, planning and research program, including the management of the ministry's resources.

1982-83 Appropriations	1982-83 Actual Expenditures	Group account classification	1983-84 Appropriations	1983-84 Actual Expenditures
	7,687,809	Salaries		4,045,722
	8,467,535	Supplies and services		4,023,336
	152,869	Capital		42,156
	105	Other expenditures		10,013
		Recoveries:		
	885,060 cr	Ministries		
	15,275 cr	Other		
19,242,394	15,407,983 (1)		9,035,729	8,121,227

NOTE: (1) In fiscal year 1982-83 this Vote included expenditures and recoveries incurred by the Air Services Branch.

VOTE 78

HIGHWAY OPERATIONS DEPARTMENT

This vote provides for the year-round maintenance and operation of the existing highway and ferry system, and for the development and expansion of the system to meet transportation needs of industry and the general public.

(a) **Highway Maintenance** - This sub-vote provides for the maintenance and operation of highways and roads, bridge structures, ferry routes, ferry landings, and tunnels; equipment operation and replacement; winter maintenance involving snow and ice removal; and the payment of grants, contributions and subsidies. This sub-vote also includes recoveries from the British Columbia Ferry Corporation for repairs to docks and other installations and vehicle maintenance.

(b) **Highway Construction and Improvements** - This sub-vote provides for the development, improvement and expansion of the highway and ferry system including planning, engineering, design, survey, construction, reconstruction, rights-of-way acquisition and property purchase, and paving, all relating to Provincial highways, roads, bridges, ferries, ferry landings, and tunnels. It provides for the purchase of equipment and machinery, and payment of authorized grants and contributions to other jurisdictions including those in connection with their highway systems. This sub-vote also includes recoveries from shared programs with the Federal Government on railway crossings, as well as North East Coal grade construction done in conjunction with the British Columbia Railway Company.

1982-83				1983-84	
Appropriations	Actual Expenditures	Group account classification		Appropriations	Actual Expenditures
	147,825,799	Salaries			152,158,650
	162,677,740	Supplies and services			208,743,438
	147,100,483	Capital			104,579,474
	3,718,529	Grants			4,787,064
	109,201	Other expenditures			250,389
		Recoveries:			
		British Columbia Buildings Corporation	40,573 cr		
	6,490,185 cr	British Columbia Ferry Corporation	2,481,683 cr		
	3,318,168 cr	British Columbia Railway	5,001 cr		
		Federal Government	3,927,305 cr		
	79,756 cr	Miscellaneous	200,431 cr		6,654,993 cr
521,132,477		Main Estimates:			
(2,466,179)		Statutory-Financial Administration Act (S.B.C.1981, Chap.15,Sec.23(3)			
518,666,298	451,543,643			468,289,850	463,864,022

VOTE 79

HYDRO DEVELOPMENT - HIGHWAYS

This vote provides for the relocation and/or reconstruction of Provincial highways, caused by the construction by British Columbia Hydro and Power Authority dams. All costs resulting from highway relocation or reconstruction are recovered from the British Columbia Hydro and Power Authority.

1982-83			1983-84	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,185,730	Salaries		494,449
	786,527	Supplies and services		826,144
	15,825,753	Capital		4,614,980
	2,237	Other expenditures		
10	17,800,247		10	5,935,573 (1)

NOTE: (1) The sum of $5,935,573 is totally recoverable from B. C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.

VOTE 80

MOTOR VEHICLE DEPARTMENT

This vote provides for the administration of the laws, regulations, and policies governing the operation of motor vehicles and industrial equipment in accordance with provisions of the Motor Vehicle Act, Commercial Transport Act, Motor Vehicle (All Terrain) Act and Highway (Industrial) Act and accompanying regulations.

(a) **Administration and Safety Branch** - This sub-vote provides for the offices of the Superintendent of Motor Vehicles and branch directors, for the provision of coordinated direction for the motor vehicle department, and for planning, development and implementation of related policies and procedures including effective road user safety programs.

(b) **Vehicle and Drivers Licensing Branch** - This sub-vote provides for the registration and licensing of motor vehicles operating on public highways and roads and includes the issuance of automobile insurance policies for the Insurance Corporation of British Columbia, and the licensing of persons to operate motor vehicles on public highways and roads. The latter includes the monitoring of driving records, the determination of the ability and fitness of persons to operate motor vehicles and the collection of revenue resulting from the issuance of licences and permits.

(c) **Standards and Compliance Branch** - This sub-vote provides for the development and implementation of industrial road safety programs, the establishment of industrial equipment standards and standards of maintenance, and operator licensing practices and procedures as specified by the Highway (Industrial) Act. This sub-vote also provides for the inspection of motor vehicles under the Motor Vehicle Act, the monitoring of all commercial vehicle routes involving load measurement and weighing, the issuance of permits, traffic tickets and warnings, and the collection of revenue resulting from the issuance of permits.

1982-83			1983-84	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	15,324,416	Salaries		14,662,425
	8,772,923	Supplies and services		9,984,629
	129,002	Capital		61,825
	533,039	Grants		433,314
	5,725	Other expenditures		152,653
30,543,264	24,765,105		25,400,685	25,294,846

VOTE 81

MOTOR CARRIER COMMISSION AND BRANCH

This vote provides for the regulation of the motor carrier industry through hearings, inspections and licensing procedures.

(a) **Motor Carrier Commission** - This sub-vote makes provision for the regulation of the motor carrier industry intra-provincially by a Provincial board pursuant to the Motor Carrier Act, and extra-provincially by membership on a federal board pursuant to the Motor Vehicle Transport Act (Canada).

(b) **Motor Carrier Branch** - This sub-vote provides for investigations into the licensing of the commercial motor carrier industry in the for-hire transportation of freight and passengers. It provides for examination of schedules of rates charged by carriers as well as time schedules and the collection of revenue resulting from the issuance of licences. It also provides for recommendations to the Motor Carrier Commission and the implementation of decisions made by the commission with respect to such applications, and for the safety inspections of public passenger vehicles.

1982-83			1983-84	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,522,610	Salaries		796,251
	629,613	Supplies and services		317,587
	29	Other expenditures		10
2,542,953	2,152,252		1,258,273	1,113,848

VOTE 82

TRANSPORTATION POLICY DEPARTMENT

This vote provides for the development, evaluation and implementation of transportation policy in the marine, air, rail and other surface systems. It also provides for regulatory activity under the Pipeline Act and Railway Act.

(a) **Administration** - This sub-vote provides for the Office of the Assistant Deputy Minister of Transportation Policy and the support staff.

(b) **Transportation Policy Analysis Branch** - This sub-vote provides for the development of a comprehensive Provincial policy, including consideration of the transportation services of the British Columbia Ferry Corporation and British Columbia Railway Company. This sub-vote also funds the air transport assistance program which provides grants to communities to develop local airport facilities.

(c) **Engineering Inspection Branch** - This sub-vote provides for regulatory activity, such as monitoring of construction, final inspections, annual inspection or certification of industrial projects under the Railway Act and Pipeline Act. The branch examines and certifies operating personnel for railway and aerial tramways.

1982-83			1983-84	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,509,032	Salaries		1,492,067
	739,540	Supplies and services		743,145
	6,043	Capital		1,064
	1,666,725	Grants		1,979,940
	92	Other expenditures		59,600
5,658,433	3,921,432		5,721,481	4,275,816

VOTE 83

AIR SERVICES BRANCH

This vote provides for the air services requirements of the Provincial Government including the acquisition and maintenance of aircraft, air and ground crews and other related operational and administrative costs. This vote includes recoveries from other ministries for staff travelling on government aircraft.

1982-83 (1)			1983-84	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
		Salaries		1,694,794
		Supplies and services		2,687,971
		Capital		25,236
		Other expenditures		71
		Recoveries:		
		Ministries-Travel 287,937 cr		
		Other 72,445 cr		360,382 cr
			4,385,176	4,047,690

NOTE: (1) In fiscal year 1982-83, Air Services Branch expenditures and recoveries were recorded against Vote 77 (Administration and Services Department).

AIR TRANSPORT ASSISTANCE PROGRAM
SUMMARY OF AIRPORT ASSISTANCE PROJECTS

Project Description	Electoral District	Applicant/Recipient	$
A-0399 - Atlin, complete 1230m of gravel runway and apron. Install hydro power at airport	Atlin	Atlin District Board of Trade	520,000.00
A-0402 - Lillooet, provide power and water service at airport	Yale-Lillooet	Village of Lillooet	50,000.00
A-0407 - Dease Lake, pave 1800m of runway and apron	Atlin	Dease Lake Airport Society	615,246.00
A-0492 - Administration and Overhead: Air Transport Assistance Program	Headquarters	N/A	147,197.43
A-0987 - Pemberton, provide power and telephone service at airport	West Vancouver - Howe Sound	Village of Pemberton	50,000.00
A-0990 - Houston, install fuel system and complete hydro installation	Omineca	District of Houston	50,000.00
A-2288 - Bella Bella, extend runway to 900m. Provide topographical surveys and airport design	Mackenzie	Denny Island Airport Society	524,000.00
A-2304 - Vanderhoof, extend and pave parking apron and taxiway	Omineca	Village of Vanderhoof	90,185.68
A-2343 - Oliver, pave 250m of overrun and complete paving project	Boundary - Similkameen	Village of Oliver	36,330.00
A-2360 - Revelstoke, construct access road and enlarge apron	Shuswap-Revelstoke	Columbia Shuswap Regional District	20,000.00
A-2591 - Mayne Island, medical helipad improvements (fencing, grading, clearing)	Saanich and the Islands	Capital Regional District	8,800.00
Total Grants Awarded:			2,111,759.11

VOTE 84

CROWN CORPORATION ASSISTANCE

This vote provides for the payment of a subsidy to the British Columbia Ferry Corporation and grants to the British Columbia Railway Company.

(a) **British Columbia Ferry Corporation** - This sub-vote provides for payment of a subsidy to the British Columbia Ferry Corporation and for lease payments and related administrative costs for ferries leased to and operated by the corporation.

(b) **British Columbia Railway Company** - This sub-vote provides for grants to the British Columbia Railway Company to compensate the railway for the operating loss on government mandated services.

1982-83			1983-84	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	4,820,819	Supplies and services		4,821,332
	50,000,000	Grants		50,000,000
54,822,700	54,820,819		54,822,700	54,821,332

EMPLOYMENT DEVELOPMENT ACCOUNT

Highway Construction - Employment opportunities will be created through additional funding for highway construction programs.

	1983-84	
Group account classification	Appropriations	Actual Expenditures
Salaries		14,133,364
Supplies and services		31,797,397
Capital		157,514,537
Grants		24,000
Other expenditures		1,120
Recoveries		4,866,399 cr
	202,500,000	198,604,020

STATEMENT OF REVENUE AND EXPENDITURES FOR FERRIES FOR WHICH THE COST OF MAINTENANCE AND OPERATION IS PROVIDED FOR IN MINISTRY OF TRANSPORTATION AND HIGHWAYS ESTIMATES

NAME OF FERRY	1982/83 REVENUE $	1982/83 EXPENDITURES $	1983/84 REVENUE $	1983/84 EXPENDITURES $
Albion-Fort Langley Ferry	NIL	1,833,287.55	NIL	1,863,412.13
Alert Bay Ferry	275,461.65	1,836,542.06	315,673.80	1,679,597.49
Arrow Park Ferry	NIL	131,826.15	NIL	121,169.29
Barkley Sound Ferry subsidy	NIL	232,998.00	NIL	253,000.00
Barnston Island Ferry	NIL	414,384.58	NIL	437,860.32
Big Bar Ferry	NIL	104,264.28	NIL	85,199.90
Castlegar Ferry	NIL	221,149.26	NIL	248,735.92
Clayhurst Ferry	NIL	282,777.48	NIL	349,494.70
Comox-Powell River Ferry	1,667,455.66	4,133,283.62	1,697,379.41	5,034,973.05
Cortes Island Ferry	107,424.70	1,111,592.03	115,379.00	1,009,709.18
Denman Island Ferry	268,997.10	1,490,796.75	299,942.40	1,266,733.17
Fort Nelson Hover Ferry	NIL	366,551.96	NIL	254,077.81
Francois Lake Ferry	NIL	1,402,901.87	NIL	1,433,296.33
Gabriola Ferry	562,749.73	3,157,892.38	643,021.98	2,969,623.87
Glade Ferry	NIL	147,993.80	NIL	140,051.91
Harrop Ferry	NIL	196,573.33	NIL	228,040.18
Hornby Island Ferry	92,353.80	853,600.81	112,518.50	1,083,766.04
Isle Pierre Ferry	NIL	32,251.02	NIL	11,449.98
Kootenay Lake Ferry	NIL	1,691,952.99	NIL	1,830,992.88
Lasqueti Island Ferry subsidy	NIL	184,833.40	NIL	194,000.00
Little Fort Ferry	NIL	61,196.14	NIL	76,152.64
Lytton Ferry	NIL	166,997.71	NIL	158,208.80
Marguerite Ferry	NIL	93,273.09	NIL	93,138.65
McLure Ferry	NIL	58,627.05	NIL	58,059.86
Miscellaneous	NIL	97,597.21	NIL	568,100.09
Misty Islands Ferry subsidy	NIL	33,000.00	NIL	33,000.00
Needles-Fauquier Ferry	NIL	894,194.99	NIL	1,064,287.03
Newcastle Island Ferry subsidy	NIL	5,416.00	NIL	20,060.00
North Bend Ferry	NIL	288,000.00	NIL	318,994.35
Prince Rupert Ferry subsidy (Dodge Cove)	NIL	15,960.00	NIL	15,806.68
Quadra Island Ferry	450,480.40	2,123,676.27	475,660.90	1,932,818.78
Queen Charlotte Islands Ferry	139,672.37	631,847.36	150,423.80	659,250.58
Shuswap Lake Ferry subsidy	NIL	26,400.00	NIL	26,400.00
Sunshine Bay Drydock	NIL	37,546.12	NIL	8,095.74
Texada Island Ferry	202,839.70	1,860,716.45	210,961.85	1,930,302.47
Thetis Island Ferry	125,550.60	1,321,218.86	129,654.77	1,078,937.28
Upper Arrow Lakes Ferry	NIL	1,426,481.37	NIL	1,511,608.58
Usk Ferry	NIL	112,030.19	NIL	114,507.16
Woodfibre Ferry	8,118.00	724,181.11	7,979.00	750,069.98
TOTALS:	3,901,103.71	29,805,813.24	4,158,595.41	30,912,982.82

STATEMENT OF VALUE OF INTRA-MINISTRY USAGE BY HIGHWAY DISTRICT AND BRANCH

FISCAL YEAR 1983-84

HIGHWAY DISTRICT AND BRANCH	VALUE OF USAGE OF MINISTRY OWNED EQUIPMENT $	VALUE OF USAGE OF CRUSH, MIX AND GUARDRAIL $
DISTRICTS:		
Burns Lake	1,139,842.00	245,549.00
Centreline Marking	498,788.00	NIL
Chilliwack	2,462,503.93	403,858.00
Courtenay	1,689,276.00	398,873.00
Cranbrook	927,187.00	284,521.00
Creston	834,257.63	162,155.00
Dawson Creek	2,094,056.00	575,822.00
Dease Lake	1,189,790.00	193,824.00
Dock District	557,798.18	NIL
Electrical Maintenance	420,238.00	NIL
Fernie	887,813.00	179,191.00
Fort St.John	2,076,876.00	780,113.00
Golden	1,054,710.00	327,751.00
Gibsons	610,007.00	147,600.00
Grand Forks	1,011,440.10	332,755.00
Kamloops	1,499,170.00	281,736.00
Kelowna	1,016,200.00	133,514.00
Lillooet	1,091,439.00	370,457.00
Merritt	1,257,273.00	814,733.00
McBride	1,140,954.00	404,797.00
Nanaimo	1,263,269.00	181,035.00
Nelson	1,084,275.14	164,322.00
New Denver	1,078,535.00	275,492.00
New Westminster	1,803,227.00	31,513.00
North Vancouver	1,300,037.90	281,653.00
100 Mile House	1,239,503.00	264,883.00
Patrol	152,243.00	NIL
Penticton	1,409,851.00	472,496.00
Port Alberni	982,808.93	171,794.00
Prince George	2,410,785.00	245,588.00
Prince Rupert	1,052,429.00	88,911.00
Quesnel	2,259,211.00	555,844.00
Revelstoke	1,223,487.00	241,742.00
Rossland	876,594.00	217,836.00
Saanich	1,416,222.00	140,170.00
Salmon Arm	1,379,436.00	347,434.00
Smithers	1,016,819.50	124,759.00
Terrace	873,957.00	184,544.00
Vanderhoof	1,435,710.00	227,512.00
Vernon	1,106,985.00	298,900.00
Williams Lake	1,970,482.00	346,253.00
Region 6 Ferry District	56,614.00	NIL
REGIONS:		
Region/District 1	406,235.00	NIL
Region/District 2	614,223.00	7,320.00
Region/District 3	607,922.36	88,152.00
Region/District 4	766,503.00	51,490.00
Region/District 5	109,966.00	NIL
Region/District 6	92,451.00	NIL
AIR SERVICES BRANCH:		
Air Services Operations	15,983.00	NIL

STATEMENT OF VALUE OF INTRA-MINISTRY USAGE BY HIGHWAY DISTRICT AND BRANCH

FISCAL YEAR 1983-84

HIGHWAY DISTRICT AND BRANCH	VALUE OF USAGE OF MINISTRY OWNED EQUIPMENT $	VALUE OF USAGE OF CRUSH, MIX AND GUARDRAIL $
MOTOR VEHICLE DEPARTMENT:		
Administration & Safety Programs	58,230.00	NIL
Commercial Transport Division	128,045.00	NIL
Drivers Licencing Division	97,333.00	NIL
Motor Vehicle Inspection Division	104,501.00	NIL
Vehicle Licencing Division	14,742.00	NIL
TRANSPORTATION POLICY DEPARTMENT:		
Engineering Inspection Branch	77,920.00	NIL
HEADQUARTERS:		
Assistant Deputy Minister-Admin.	17,578.00	NIL
Bridge Engineering Branch	284,322.00	NIL
Communications Engineer	193,449.00	NIL
Construction Branch	1,308,410.00	NIL
Equipment Services Branch	123,977.00	NIL
Financial Services Branch	7,979.00	NIL
Geotechnical & Materials Engineering Branch	1,281,875.00	NIL
Highway Design & Surveys Branch	474,408.00	NIL
Maintenance Services Branch	2,017.00	NIL
Paving Branch	1,976,493.00	NIL
Planning Branch	24,142.00	NIL
Traffic Engineering Branch	86,757.00	NIL.
TOTALS:	59,727,563.67	11,046,892.00

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1983/84

VOTE 78 HIGHWAY MAINTENANCE

HIGHWAY DISTRICT	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	83-84 TOTAL $	82-83 TOTAL $
Region/District 1 - Burnaby	1,889,056.25		798,177.67			2,687,233.92	2,428,925.32
North Vancouver	3,758,281.52	466,942.00	293,258.00	750,069.98		5,268,551.50	5,083,006.43
Gibsons	1,826,464.46	169,705.00	60,244.15			2,056,413.61	1,917,647.10
Patrol	1,022,447.25					1,022,447.25	495,737.09
New Westminster	5,987,834.81	404,941.00	519,586.50	2,301,272.45		9,213,634.76	8,640,291.95
Chilliwack	4,790,421.10	1,534,781.00	264,781.00	318,994.35		6,908,977.45	7,010,343.75
Dock	425,515.41cr					425,515.41cr	691,369.64
Electrical Maintenance	2,170,111.10					2,170,111.10	1,879,534.19
Centreline Marking	4,910,256.03					4,910,256.03	4,805,253.53
Region/District 2 - Kamloops ...	2,710,702.36		146,849.03			2,857,551.39	2,988,043.50
Kamloops	3,221,295.98	1,551,741.00	151,662.98	134,212.50		5,058,912.46	5,101,267.89
Salmon Arm	3,167,862.19	1,066,650.00	260,978.36	26,400.00		4,521,890.55	4,574,794.90
Vernon	2,941,179.73	910,382.00	172,749.03			4,024,310.76	4,254,722.50
Penticton	3,158,819.44	1,006,013.00	207,932.92			4,372,765.36	4,238,280.55
Merritt	2,750,144.36	798,670.00	160,088.06	158,208.80		3,867,111.22	3,900,439.34
Lillooet	2,707,817.24	656,639.00	189,956.44			3,554,412.68	3,609,835.32
100 Mile House	2,954,705.34	1,083,612.00	111,690.05	85,199.90		4,235,207.29	4,405,182.71
Kelowna	2,236,243.74	855,844.00	131,401.75			3,223,489.49	3,105,967.26
Region/District 3 - Nelson	1,870,214.60		220,760.17			2,090,974.77	1,966,884.57
Nelson	2,111,323.91	893,956.00	165,662.54	2,207,180.71		5,378,123.16	5,146,400.89
Rossland	1,751,226.94	1,083,221.00	63,716.99	248,735.92		3,146,900.85	2,967,156.38
Grand Forks	1,839,972.94	860,566.00	135,464.67			2,836,003.61	2,636,884.53
New Denver	2,068,874.42	737,065.00	134,914.57	1,185,456.32		4,126,310.31	3,796,775.54
Cranbrook	2,162,215.75	598,529.00	88,432.21			2,849,176.96	2,673,815.50
Fernie	1,485,262.97	587,177.00	73,859.71			2,146,299.68	1,937,165.30
Golden	2,380,171.72	745,462.00	200,404.11			3,326,037.83	3,235,523.09
Revelstoke	2,076,396.12	1,167,249.00	171,387.73	1,511,608.58		4,926,641.43	4,607,467.75
Creston	1,678,828.60	757,879.00	65,336.31			2,502,043.91	2,567,585.59
Region/District 4 - Prince George	2,360,583.10		205,598.12			2,566,181.22	2,635,364.96
Prince George	4,114,150.39	2,632,893.00	410,077.59	11,449.98		7,168,570.96	6,567,522.28
Quesnel	3,367,601.87	1,778,536.00	143,774.12	93,138.65		5,383,050.64	5,133,078.16
Dawson Creek	3,435,380.93	2,526,110.00	263,373.25	349,494.70		6,574,358.88	6,377,653.15
Fort St. John	3,909,129.20	1,603,135.00	275,346.90	254,077.81		6,041,688.91	6,003,791.63
Vanderhoof	2,608,242.80	965,794.00	221,249.51			3,795,286.31	3,825,846.70

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1983/84

VOTE 78 HIGHWAY MAINTENANCE
- Continued -

HIGHWAY DISTRICT	$	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	83-84 TOTAL $	82-83 TOTAL $
McBride		1,958,194.58	1,154,841.00	141,685.30			3,254,720.88	3,369,619.09
Williams Lake		3,662,197.50	1,481,793.00	350,731.20			5,494,721.70	5,742,320.24
Region/District 5 - Terrace		1,315,272.82		85,659.21			1,400,932.03	1,331,746.99
Prince Rupert		2,707,427.09	785,023.00	230,475.03	708,057.26		4,430,982.38	4,632,447.48
Terrace		1,860,178.31	719,123.00	133,650.61	114,507.16		2,827,459.08	2,785,031.41
Dease Lake		2,694,490.33	1,084,394.00	128,799.78			3,907,684.11	3,915,493.59
Smithers		2,596,070.15	964,914.00	154,491.92			3,715,476.07	3,508,847.35
Burns Lake		2,313,344.77	885,113.00	106,670.59	1,433,296.33		4,738,424.69	4,355,226.70
Region/District 6 - Nanaimo		1,394,154.56		5,897.23			1,400,051.79	1,619,002.29
Nanaimo		3,936,439.78	336,918.00	178,618.18	20,060.00		4,472,035.96	4,803,249.43
Saanich		4,655,777.47	327,611.00	283,046.21			5,266,434.68	5,481,262.08
Port Alberni		3,034,653.26	377,607.00	250,953.17	447,000.00		4,110,213.43	4,406,141.33
Courtenay		4,942,775.78	690,606.00	331,593.01			5,964,974.79	5,991,568.03
Region 6 Ferry District					17,986,461.33		17,986,461.33	17,889,319.23

ROADS GENERALLY
PROJECTS:

E-0067-Traffic Branch (Hdqtrs.operations)	548,974.24
E-0068-Street lighting and traffic signals	1,536,085.08
E-1773-Automatic railway signal maintenance	530,954.35
F-0041-Leases and agreements (Headquarters)	247,210.77
F-0043-Taxes	4,257.70
F-0048-Damage claims	130,190.78
F-0049-Insurance re trailer moves & household effects	34,577.00
F-0051-Miscellaneous	67,180.97
F-0052-Grants, engineering and dyking	56,970.07
F-1802-Reimbursement from union - leave without pay	120,355.11cr

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1983/84

VOTE 78 HIGHWAY MAINTENANCE
- Continued -

	$	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	83-84 TOTAL $	82-83 TOTAL $
ROADS GENERALLY - continued								
PROJECTS:								
F-2429-Highway maintenance yard improvements.....	1,548.00							
H-0060-Highway signs operations (financing).....	183,307.85cr							
M-0053-Maintenance services generally (Headquarters operations).	245,341.92							
M-0054-Sandbag and flood prevention.....	24,379.95							
M-0055-Avalanche control.....	420,036.76							
M-0056-Scenic Highway Act.....	1,728.28							
M-2457-Photocopier rental and operation charges.....	39,774.57							
M-2653-B.C.Housing & Employment Development Bonds.....	80,153.00							
T-1194-Highways road maintenance -base occupancy charges..	22,950,105.52							
T-1196-Highways road maintenance -tenant improvement charges	567,870.00							
Z-1237-Avalanche monitoring system.....	99,042.56							
Z-1240-Maintenance management....	159,541.55							
Z-1241-Shared equipment.....	1,741,461.74							
Asphalt mix production....	1,738,358.17							
Crushed gravel production.	4,659,391.90							
Guardrail production.....	705,193.29							
Intra-Ministry material use credits.....	11,046,892.00cr	25,239,773.21					25,239,773.21	17,763,991.17

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1983/84

VOTE 78 HIGHWAY MAINTENANCE
- Continued -

	$	ROADS $	SNOW REMOVAL $	BRIDGES $	FERRIES $	MACHINERY $	83-84 TOTAL $	82-83 TOTAL $
BRIDGES GENERALLY								
PROJECTS:								
B-0059-Bailey bridges.....	581,109.74			581,109.74			581,109.74	346,280.30
FERRIES GENERALLY								
PROJECTS:								
H-0061-Ferries generally.....	568,100.09							
T-1198-Highways ferries -base occupancy charges..	313,514.68							
T-1199-Highways ferries -tenant improvement charges	25,071.00							
Z-1242-Ferry management system...	19,891.74				926,577.51		926,577.51	359,045.24
MACHINERY GENERALLY								
PROJECTS:								
H-0063-Machinery (Hdqtrs. maintenance and operations generally).....	2,658,675.52							
H-0064-Autoplan insurance.....	1,100,883.45							
H-0065-Radio-mobile maintenance..	1,303,449.51							
H-0066-Machinery replacement, motor vehicles.....	1,135,954.59							
H-1310-Machinery and equipment replacement.....	3,403,451.45							
Z-1243-Equipment management system.....	93,822.10							
Z-1857-Communications engineer...	25,029.71							
-Machinery maintenance and operation - districts...	40,627,869.82							
-Intra-Ministry equipment rental credits.....	59,727,563.67cr					9,378,427.52cr	9,378,427.52cr	12,363,720.72cr
		153,308,453.36	36,251,435.00	9,272,095.62	31,271,460.24	9,378,427.52cr	220,725,016.70	207,146,430.22

SUMMARY OF CAPITAL AND MAINTENANCE EXPENDITURES FOR ROADS, BRIDGES, FERRIES, LEGAL SURVEYS, RIGHTS-OF-WAY, PAVING, ETC. FOR THE FISCAL YEAR 1983-84
(FOR DETAILS SEE FOLLOWING SCHEDULES BY ELECTORAL DISTRICTS)

ELECTORAL DISTRICTS	VOTE 78 HWY.CONSTR. $	EMPLOYMENT DEVEL. ACC. $	VOTE 79 HYDRO DEVEL. $	TOTAL CAPITAL $	MAINTENANCE $	TOTAL $
Alberni	1,100,953.31	-	-	1,100,953.31	2,436,518.86	3,537,472.17
Atlin	3,942,106.82	11,628,003.93	-	15,570,110.75	5,506,606.45	21,076,717.20
Boundary-Similkameen	6,202,485.46	3,146,502.40	-	9,348,987.86	7,026,297.95	16,375,285.81
Burnaby-Edmonds	1,901,449.39	1,274,177.69	-	3,175,627.08	2,250,110.87	5,425,737.95
Burnaby North	194,347.69	-	-	194,347.69	176,703.35	371,051.04
Burnaby-Willingdon	1,337,759.03	261,314.01	-	1,599,073.04	193,032.24	1,792,105.28
Cariboo	21,030,972.01	17,279,552.04	-	38,310,524.05	14,845,525.21	53,156,049.26
Central Fraser Valley	496,881.54	1,331,525.00	-	1,828,406.54	833,375.60	2,661,782.14
Chilliwack	3,827,421.18	594,266.49	-	4,421,687.67	1,540,123.37	5,961,811.04
Columbia River	3,523,737.65	2,232,052.87	-	5,755,790.52	4,649,233.20	10,405,023.72
Comox	6,203,657.81	2,501,264.12	-	8,704,921.93	8,992,758.86	17,697,680.79
Coquitlam-Moody	694,740.12	5,019,332.55	-	5,714,072.67	381,566.05	6,095,638.72
Cowichan-Malahat	2,039,427.82	1,400,160.83	-	3,439,588.65	3,658,482.86	7,098,071.51
Delta	16,440,636.86	7,619,553.07	-	24,060,189.93	983,971.95	25,044,161.88
Dewdney	3,107,104.67	4,747,684.41	-	7,854,789.08	2,332,513.09	10,187,302.17
Esquimalt-Port Renfrew	3,161,237.72	212,029.91	-	3,373,267.63	2,390,538.18	5,763,805.81
Kamloops	9,666,837.45	15,704,849.53	-	25,371,686.98	8,757,653.57	34,129,340.55
Kootenay	7,794,214.26	2,459,838.76	-	10,254,053.02	3,672,281.27	13,926,334.29
Langley	581,110.37	-	-	581,110.37	1,778,916.64	2,360,027.01
Mackenzie	1,475,259.60	-	-	1,475,259.60	6,665,126.77	8,140,386.37
Maillardville-Coquitlam	925,191.28	1,915,579.69	-	2,840,770.97	214,156.18	3,054,927.15
Nanaimo	2,006,152.89	-	-	2,006,152.89	6,441,836.75	8,447,989.64
Nelson-Creston	5,796,751.04	2,629,149.69	-	8,425,900.73	12,033,822.96	20,459,723.69
New Westminster	3,672,568.53	5,779,759.76	-	9,452,328.29	41,687.79	9,494,016.08
North Island	1,521,162.72	556,422.69	-	2,077,585.41	8,040,129.74	10,117,715.15
North Peace River	7,700,387.70	5,219,954.77	-	12,920,342.47	6,063,482.31	18,983,824.78
North Vancouver-Capilano	179,805.88	-	-	179,805.88	731,192.68	910,998.56
North Vancouver-Seymour	1,486,308.66	2,930,033.22	-	4,416,341.88	736,423.83	5,152,765.71
Oak Bay-Gordon Head	-	-	-	-	2,004.14	2,004.14

ELECTORAL DISTRICTS	VOTE 78 HWY.CONSTR. $	EMPLOYMENT DEVEL. ACC. $	VOTE 79 HYDRO DEVEL. $	TOTAL CAPITAL $	MAINTENANCE $	TOTAL $
Okanagan North	5,014,573.99	2,083,841.43	-	7,098,415.42	5,497,284.03	12,595,699.45
Okanagan South	11,521,442.94	5,535,652.30	-	17,057,095.24	2,716,399.58	19,773,494.82
Omineca	6,375,635.16	3,802,776.25	-	10,178,411.41	9,075,631.39	19,254,042.80
Prince George North	4,114,641.90	3,677,379.15	-	7,792,021.05	2,715,189.96	10,507,211.01
Prince George South	8,453,516.80	7,339,771.73	-	15,793,288.53	9,459,448.03	25,252,736.56
Prince Rupert	1,576,809.49	3,694,086.39	-	5,270,895.88	2,867,353.83	8,138,249.71
Richmond	4,175,422.97	32,881.66	-	4,208,304.63	1,511,867.78	5,720,172.41
Rossland-Trail	1,417,226.55	335,688.64	-	1,752,915.19	3,146,900.85	4,899,816.04
Saanich and the Islands	1,968,037.35	6,289,440.57	-	8,257,477.92	2,873,892.36	11,131,370.28
Shuswap-Revelstoke	7,023,326.90	4,696,618.29	5,763,670.41	17,483,615.60	10,448,959.71	27,932,575.31
Skeena	10,999,216.79	18,343,054.86	-	29,342,271.65	7,366,653.00	36,708,924.65
South Peace River	12,589,566.48	33,772,339.66	-	46,361,906.14	6,574,358.88	52,936,265.02
Surrey	1,831,530.65	46,103.97	-	1,877,634.62	2,290,849.58	4,168,484.20
Vancouver Centre	-	-	-	-	87,437.05	87,437.05
Vancouver East	20,384.20	-	-	20,384.20	296,395.21	316,779.41
Vancouver-Little Mountain	-	-	-	-	-	-
Vancouver-Point Grey	60,315.94	-	-	60,315.94	245,067.40	305,383.34
Vancouver South	18,725.83	-	-	18,725.83	93,069.51	111,795.34
Victoria	8,390.00	-	-	8,390.00	-	8,390.00
West Vancouver-Howe Sound	8,158,852.20	209,111.74	-	8,367,963.94	4,566,681.43	12,934,645.37
Yale-Lillooet	14,459,450.93	12,302,266.57	171,903.00	26,933,620.50	11,491,619.74	38,425,240.24
Planning and Engineering Services, Headquarters	25,341,268.73	-	-	25,341,268.73	24,023,884.66	49,365,153.39
	243,139,005.26	198,604,020.64	5,935,573.41	447,678,599.31	220,725,016.70	668,403,616.01

HEADQUARTERS

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HIGHWAY MAINTENANCE			
Roads Generally			
Project E-0067 - Traffic Branch (Headquarters operations)		548,974.24	
E-0068 - Street lighting and traffic signals		1,536,085.08	
E-1773 - Automatic railway signal maintenance		530,954.35	
F-0041 - Leases and agreements (Headquarters)		247,210.77	
F-0043 - Taxes		4,257.70	
F-0048 - Damage claims		130,190.78	
F-0049 - Insurance re trailer moves and household effects		34,577.00	
F-0051 - Miscellaneous		67,180.97	
F-0052 - Grants, engineering and dyking		56,970.07	
F-1802 - Reimbursement from union - leave without pay		120,355.11cr	
F-2429 - Highway maintenance yard improvements		1,548.00	
H-0060 - Highway signs operation (financing)		183,307.85cr	
M-0053 - Maintenance services generally(Headquarters operations)		245,341.92	
M-0054 - Sandbag and flood prevention		24,379.95	
M-0055 - Avalanche control		420,036.76	
M-0056 - Scenic Highway Act		1,728.28	
M-2457 - Photocopier rental and operation charges		39,774.57	
M-2653 - B.C.Housing and Employment Development Bonds		80,153.00	
T-1194 - Highways road maintenance -base occupancy charges		22,950,105.52	
T-1196 - Highways road maintenance -tenant improvement charges		567,870.00	
Z-1237 - Avalanche monitoring system		99,042.56	
Z-1240 - Maintenance management system		159,541.55	
Z-1241 - Shared equipment system		1,741,461.74	
Asphalt mix production		1,738,358.17	
Centreline marking		4,910,256.03	
Crushed gravel production		4,659,391.90	
Dock District (material sales exceeded district expenditures during this fiscal year as a result of the decision to transfer to B.C.Ferry Corporation all work associated with repairs to docks and other installations)		425,515.41cr	
Electrical maintenance generally		2,170,111.10	
Guardrail production		705,193.29	
Intra-ministry material use credits		11,046,892.00cr	31,894,624.93
Bridges generally			
Project B-0059 - Bailey bridges			581,109.74
Ferries generally			
Project H-0061 - Ferries generally		568,100.09	
T-1198 - Highways ferries - base occupancy charges		313,514.68	
T-1199 - Highways ferries - tenant improvement charges		25,071.00	
Z-1242 - Ferry management system		19,891.74	926,577.51

HEADQUARTERS

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Machinery generally			
Project H-0063 - Machinery (Headquarters Maintenance and operations generally)		2,658,675.52	
H-0064 - Autoplan insurance		1,100,883.45	
H-0065 - Radio-mobile maintenance		1,303,449.51	
H-0066 - Machinery replacement, motor vehicles		1,135,954.59	
H-1310 - Machinery and equipment replacement		3,403,451.45	
Z-1243 - Equipment management systems		93,822.10	
Z-1857 - Communications system		25,029.71	
Machinery maintenance and operation - Districts		40,627,869.82	
Intra-Ministry equipment rental credits		59,727,563.67cr	9,378,427.52cr
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-0089 - Construction generally		961,270.66	
C-0090 - Construction overhead		207,077.05	
T-1202 - Base occupancy charges		89,513.76	
Z-1251 - Construction Branch system		13,489.78	1,271,351.25
Equipment Services Branch:			
Project H-0088 - Scientific and technical equipment		586,245.26	
H-0112 - Radio-mobile installations		579,529.35	
H-0115 - Equipment and machinery		1,031,956.79	2,197,731.40
Roadside Development and Landscape Branch:			
Project D-0004 - Headquarters research and general expenses		130,223.36	
D-0006 - Arterial Highway Beautification, Community Participation Program		28,094.37	158,317.73
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0022 - Bridge steel		247,784.92	
B-0281 - Bridge design and engineering services		1,536,376.96	
B-0739 - Bridge redecking, Trans Canada Highway and general highways		1,443,316.57	
Z-1252 - Bridge design system		38,384.71	3,265,863.16
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, on highways throughout British Columbia		490,390.05	
S-0085 - Miscellaneous Drum Mix Paving, on highways throughout British Columbia		213,663.92	
S-0086 - Paving generally		724,989.67	
S-0087 - Surveys and investigations		1,108,615.22	
T-1204 - Base occupancy charges		439,567.48	
T-1205 - Tenant improvement charges		5,827.00	
Z-1858 - Paving Branch system		40.32	2,983,093.66

HEADQUARTERS

	$	$	$
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0107 - Geotechnical and materials testing		7,155,600.17	
G-1364 - Northeast Coal Development Access Highway		51,947.38	
G-2334 - Bridge construction program		84,875.47	
G-2335 - Highway construction program		314,539.86	
T-1206 - Base occupancy charges		937,976.32	
T-1207 - Tenant improvement charges		43,316.00	
Z-1246 - Geotechnical system		229,036.12	8,817,291.32
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Runaway lanes for steep grades (study)	11,287.43		
-Staff training expenses	3,916.61		
-Surveys generally	1,546,665.04	1,561,869.08	
L-0111 - Archaeological explorations		84,756.30	
Z-1245 - Design and surveys system		348,035.20	1,994,660.58
Highway Safety Branch:			
Project C-0207 - Highway safety measures, km reference marker project		14,947.94	
C-0209 - Highway safety measures, general expenses		127,370.91	
Z-1229 - Safety Engineering system		40,775.92	183,094.77
Information Systems Branch:			
Project Z-1244 - Evaluation of data processing needs			320,560.20
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-General expenses			47,167.58
Planning Branch:			
Project O-0062 - Headquarters operations		1,891,208.49	
Z-1239 - Planning system		246,013.26	2,137,221.75
Traffic Branch:			
Project E-0003 - Signs, signals and traffic control		1,624,711.11	
Z-1247 - Traffic engineering system		18,815.29	1,643,526.40
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Headquarters Branch salaries, travel etc., excluding right-of-way settlements		251,221.13	
-Sale of property proceeds		36,000.00cr	215,221.13
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1835 - Municipal programs operations, salaries, travel, etc.,excluding secondary highway projects			106,167.80
Total, Headquarters			$49,365,153.39

ALBERNI ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,796,818.20
Snow removal			223,581.10
Bridge maintenance			163,119.56
Ferry maintenance and operation- Barkley Sound Ferry Subsidy			253,000.00
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0154 - Minor Betterments, miscellaneous		134,244.15	
C-0542 - Beaver Creek Road, reconstruct and pave		182,539.19	
C-2161 - Alberni-Tofino Hwy., west of Port Alberni, Forster bridge approaches		167,255.93	
C-2540 - Port Alberni area, miscellaneous patch paving		305,000.00	
C-2575 - Highway 4 east, machine patch		50,000.00	
C-2576 - Sterling Arm Crescent, machine patch		25,000.00	
N-0397 - Guardrail installation		432.50	864,471.77
Bridges and Ferry Landings:			
Day Labour			
Project B-2282 - Forster Bridge, install multi-plate		120,818.66	
B-2283 - Schley Bridge, install multi-plate		9,912.20	130,730.86
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Canadian Highway 4, West Boundary Lot 9 to Alberni junction (see also Comox)		586.00	
-Minor road surveys		6,865.35	
-Qualicum Bypass (4 lane)		3,165.61	
-Various along Alberni-Tofino Highway (Hwy.4), site plans for bridges, Canoe Creek, Maureen, Forster, Mercer		83,694.92	94,311.88
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Goodyear Road		6,438.80	
-Moore Road		5,000.00	11,438.80
Total, Alberni Electoral District			$3,537,472.17

ATLIN ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,856,305.18
Snow removal			1,427,708.14
Bridge maintenance			222,593.13
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0147 - Minor Betterments,			
-Towhill Road, clearing and grubbing	94,719.26		
-miscellaneous	75,198.12	169,917.38	
C-0149 - Minor Betterments, miscellaneous		222,500.42	
C-1940 - Highway 37A, Bitter, Bear, Surprise and Cullen Bridges approaches, reconstruct		395,838.51	
C-1942 - Highway 37, reconstruct for paving		414,103.17	
C-1943 - Highway 37, Cousins Creek, reconstruct and install multi-plate		353,584.69	
C-1948 - Atlin Highway, Surprise Lake Road to Fourth of July Creek, reconstruct		101,218.71	
C-1949 - Cassiar access road, improve drainage		300,000.00	
C-1950 - Atlin Highway, Hitchcock Creek, install multi-plate		60,000.00	
N-0390 - Guardrail installation		13,710.80	
N-0394 - Guardrail installation		25,240.40	2,056,114.08
Construction Branch:			
Project C-1837 - Highway 37, Stewart-Cassiar, Blue River north, relocate and reconstruct			716,650.16
Bridges and Ferry Landings:			
Day Labour			
Project B-1436 - Ritchie Creek Bridge, construct replacement		118,713.14	
B-1792 - Oweegee Creek Bridge, install multi-plate		64,331.20	183,044.34
Bridge Branch:			
Project B-1402 - Surprise Creek Bridge, Cullen Creek Bridge, Stewart-Cassiar Highway 37A		201,327.59	
B-1706 - Cottonwood River Bridge on Cassiar Highway 37		186,858.33	
B-1715 - Bear River Bridge, Bitter Creek Bridge, Stewart-Cassiar Highway 37A		346,581.38	734,767.30
Paving Branch:			
Project S-1705 - Highway 37, Kitwancool-north, Kitwancool accesses (see also Skeena)		4,146.58cr.	
S-1752 - Highway 37, Nass River to Hanna Corner and Highway 37A (Stewart-Meziadin Highway), Meziadin Junction to Surprise Creek		46,234.41	42,087.83

ATLIN ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Aiyansh Junction-Greenville		100,057.66	
-Highway 37, Dease Lake-Sawmill Point		7,565.11	
-Highway 37, Blue River to Yukon Boundary		7,841.00	
-Terrace to Nass River Road, Cedar River to Tseax junction (see also Skeena)		54,876.57	170,340.34
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Cassiar Highway 37-21km south of Cassiar Junction		19,666.98	
-E.Bdy.,Lot 1878 to the W.Bdy. Lot 1903, Cassiar District, Cassiar Highway 37 (see also Skeena)		19,356.84	39,023.82
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Gravel pits			78.95
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch			
Project C-1837 - Hwy.37, Stewart-Cassiar, Blue River north, relocate and reconstruct			399,580.93
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1102 - Greenville Bridge over Nass River		4,575,810.03	
B-1402 - Surprise Creek Bridge, Cullen Creek Bridge, Stewart-Cassiar Highway 37A		1,175,200.68	
B-1706 - Cottonwood River Bridge on Cassiar Highway 37		676,106.78	
B-1715 - Bear River Bridge,Bitter Creek Bridge, Stewart-Cassiar Highway 37A		1,270,336.35	7,697,453.84
Paving Branch:			
Project S-1705 - Highway 37,Kitwancool-north, Kitwancool accesses (see also Skeena)		1,443,595.28	
S-1752 - Highway 37, Nass River to Hanna Corner and Highway 37A (Stewart-Meziadin Highway): Meziadin Junction to Surprise Creek		2,076,424.89	
S-5102 - Highway 37, Derrick Creek to Nass River		10,948.99	3,530,969.16
Total, Atlin Electoral District			$21,076,717.20

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			4,844,617.69
Snow removal			1,884,312.11
Bridge maintenance			297,368.15
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0018 - North Fork Road, reconstruct and pave		328,168.70	
C-0126 - Minor Betterments,			
-Flood repairs	88,015.00		
-Miscellaneous	236,691.96	324,706.96	
C-0130 - Minor Betterments, miscellaneous		11,561.11	
C-0133 - Minor Betterments, miscellaneous		172,785.08	
C-0473 - Keremeos area, miscellaneous roads, upgrading		79,999.89	
C-0474 - Oliver area, miscellaneous roads, upgrading		79,999.73	
C-0821 - Penticton area, miscellaneous roads, upgrading		78,868.66	
C-1879 - Gilpin Road, reconstruction		61,628.98	
C-1880 - Westlake Drive and Highway 3, construct left turn slot		17,436.86	
C-1881 - Hulme Creek Road, reconstruction		49,670.00	
C-1882 - Highway 33, Westbridge north, shoulder and ditch		204,090.19	
C-1883 - Blythe and Rhone Roads, reconstruction		102,651.21	
C-1884 - Highway 3, Wilgress Lake Road, construct left turn slot		33,259.00	
C-1885 - Anaconda Road, reconstruction		18,719.94	
C-1886 - Grand Forks, miscellaneous roads, sealcoat		123,877.55	
C-1887 - Highway 3, miscellaneous sections, plane and patch		66,741.00	
C-1888 - Christian Valley Road, relocation		326,934.79	
C-2209 - Hwy.3, Krueger Hill, construct 3rd lane		200,000.00	
C-2210 - Area A Roads, pave miscellaneous sections		318,390.00	
C-2211 - Keremeos Bypass, pave		159,859.40	
C-2510 - Christina Lake, bin wall construction		30,232.22	
C-2557 - Highway 3, Kreuger Hill rock work		280,000.00	
C-2567 - Kelowna area, miscellaneous gravelling (see also Okanagan North and Okanagan South))		17,348.05	
D-1553 - Rest area upgrading		19,808.53	
N-0377 - Guardrail installation		15,049.99	
N-0383 - Guardrail installation		37,723.63	
W-0348 - Fencing Schedule 2 Highways		37,993.19	
W-0352 - Fencing Schedule 2 Highways		76,583.39	3,274,088.05
Construction Branch:			
Project C-1744 - Highway 97, Penticton Channel Parkway, Stage 2, paving, curb and gutter, storm drainage			443,583.55

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT - continued

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Bridges and Ferry Landings:			
Day Labour			
Project B-0306 - Green Mountain Bridge reconstruct		20,900.00	
B-2245 - Boundary Smelter Bridge, new deck, ties, stringers, caps and wheel guards		20,000.00	
B-2246 - White Cabin Bridge, new floor beams, decking and wheel guards		20,836.09	
B-2247 - Westbridge Bridge,remove old Howe truss and clean up		8,165.52	
B-2293 - Ashnola Bridge, pier repairs		54,100.00	124,001.61
Bridge Branch:			
Project B-0735 - Eckhardt Avenue Bridge improvements, Eckhardt Avenue, Penticton			332,772.21
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Green Mountain Road (Apex)	186,279.48		
-miscellaneous roads, Okanagan Falls,Oliver and Osoyoos areas	228,804.26		
-Rock Creek-3 km North West Bridge	160,333.49	575,417.23	
S-1686 - Highway 97,Summerland to Peachland section,intermittent paving(see also Okanagan South)		676,401.74	
S-1741 - North Fork Road, Grand Forks and miscellaneous junctions on Highway 3		14,470.28	1,266,289.25
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Minor road surveys		19,047.82	
-Penticton Channel Parkway		198,896.67	
-Southern Trans Provincial Highway, Hedley-Keremeos		157.05	
-Trout Creek Hill to Summerland		29,263.12	247,364.66
Legal Surveys Office			
Legal Surveys - Project L-0099			
-District Lot 3774, K.D.Y.D., Princeton Summerland Road 40		250.00	
-Gilpin Road through part of D.L.499 715 K.D.		625.00	
-Highway S.Bdy., S.L.3, D.L.2704 to N.Bdy.,D.L.165^{S} ,S.D.Y.D-Rock Creek-Kelowna Highway 33		12,240.70	
-Kingsley Road through part of District Lot 6845, S.D.Y.D. and reference plan		594.59	
-Plans of statutory right-of-way for highway (1) Kenmore Road 72-04 through plan B1775, D.L. 534 (2) White Hall Road 73-9 in lot 10, Block 2, Plan 657, D.L.184, S.D.Y.D.		1,059.18	
-Plan of subdivision to consolidate old road right-of-way with lots 32 and 53, plan 726 D.L.499 S.D.Y.D.		774.36	
-Through part of District Lot 266 O.D.Y.D., Naramata Road		5,695.57	

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office (continued):			
Legal Surveys - Project L-0099			
-1. Through Lot 4, Plan 8423,D.L. 334, S.D.Y.D. 2. Danville Highway 41 in Blk.17 plan 27506 and parcels W and X Block 14, Plan 39, D.L.5176, S.D.Y.D. 3. Highway 3 through Lot 7, Blk.6, Plan 586, D.L.380 S.D.Y.D.		1,579.95	
-Through parts D.L.346, 8915, S.D.Y.D. Kelly Road		2,861.92	
-W.Bdy.,D.L.2075 to E.Bdy.,D.L.4163, Princeton Summerland Road No.40		9,483.40	35,164.67
Traffic Branch:			
Project E-1674 - Route 97(Westminster Ave.) at Winnipeg Street, Penticton, signal and lighting replacement		17,654.95	
E-1692 - Route 97 at 13th Street, Peachland, lighting installation Route 3, 76th Avenue at 83rd Street,Osoyoos, flashing beacon replacement(see also Okanagan South)		6,860.16	
E-2326 - Route 3 at Danville Highway 41, Grand Forks, lighting installation		4,430.00	28,945.11
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Boundry Creek Road		10,668.49	
-Brown Creek Road North 155		1,584.00	
-Crowsnest Highway 3		6,002.00	
-Gilpin Road		15,656.00	
-Gravel Pits		934.19	
-Highway 97, Okanagan Falls		1,481.00	
-Keremeos Bypass Road 57-1		16,252.00	
-Lakehill Road 53		5,001.00	
-Madge Road		4,500.00	
-Manly Meadows Road		85.00	
-Matheson Road 34-19A		15,252.00	
-Naramata Road		3,300.00	
-Okanagan Highway 97 at Oliver		1.00	
-Penticton Channel Parkway		64,000.00	
-Rock Creek-Kelowna Highway 33		5,500.00	
-Second Street and Lily Road Naramata		1.00	
-Southern Trans Provincial Highway 3 at Princeton		163,895.40	
-Southern Trans Provincial Highway 3-Copper Mountain		5,698.99	319,812.07
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0701 - 264B, 89th Street and 64th Avenue, Village of Osoyoos		21,527.28	
V-1178 - 135B, Naramata Road, City of Penticton		100,000.00	
V-2438 - 270B, North Prairie Valley Road, District of Summerland		8,937.00	130,464.28
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads			
Construction Branch:			
Project C-1744 - Highway 97, Penticton Channel Parkway, Stage 2, paving curb and gutter, storm drainage			1,699,922.16

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT - continued

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Bridges and Ferry Landings:			
Bridge Branch			
Project B-0735 - Eckhardt Avenue Bridge improvements, Eckhardt Avenue, Penticton		402,079.55	
B-2395 - Penticton Parkway Underpass, Highway 97	334,474.93		
-Recoveries from Urban Transportation Assistance Program	284,067.00cr.	50,407.93	452,487.48
Paving Branch:			
Project S-1741 - North Fork Road, Grand Forks and miscellaneous junctions on Highway 3			994,092.76
Total, Boundary-Similkameen Electoral District			$16,375,285.81

BURNABY-EDMONDS ELECTORAL DISTRICT

$	$	$	
HIGHWAY MAINTENANCE			
Road maintenance			2,213,694.30
Snow removal			23,932.01
Bridge maintenance			12,484.56
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		27,605.19	
C-0122 - Minor Betterments, miscellaneous		4,687.00	
C-0488 - Canada Way at Burris Intersection, improvements		195,000.00	
C-1434 - Minor Betterments, miscellaneous		25,065.00	
C-2107 - Highway 7, Bell Intersection, raise channelization for left turn slot(see also Burnaby North)		96,000.50	
C-2109 - Highway 1, Deer Lake Interchange, reconstruct		110,000.00	458,357.69
Paving Branch:			
Project S-1748 - Kingsway, Edmonds to Boundary Road(see also Burnaby-Willingdon)		289,805.29	
S-1754 - Highway 1,Trans Canada Sections, Capilano Bridge to east of Port Mann Bridge(see also Maillardville-Coquitlam and North Vancouver-Seymour)		557,145.37	846,950.66

BURNABY-EDMONDS ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-From Edmonds Street to 10th Avenue for new curb and gutter construction	5,432.56		
-Minor road surveys	1,075.45	6,508.01	
L-0558 - Fraser River Crossing (Annacis island),Byrne to Queensborough Bridge		164,524.72	171,032.73
Highway Safety Branch:			
Project C-0205 - General Safety Works, Assistance in funding for impact attenuators' replacement parts (see also Burnaby-Willingdon and Richmond)			999.00
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0741 - 14B, North Road (w.half) District of Burnaby			424,109.31
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads			
Construction Branch:			
Project C-1121 - Marine Way, Byrne Road to north end of Queensborough Bridge, grade construction (see also New Westminster)		1,185,842.02	
- wick drain installation		34,657.18	
-Federal Government recoveries		112,000.00cr.	1,108,499.20
Paving Branch:			
Project S-1748 - Kingsway, Edmonds to Boundary Road (see also Burnaby-Willingdon)		134,616.32	
S-1754 - Highway 1, Trans Canada Sections, Capilano Bridge to east of Port Mann Bridge(see also Maillardville-Coquitlam and North Vancouver-Seymour)		31,062.17	165,678.49
Total, Burnaby-Edmonds Electoral District			$5,425,737.95

BURNABY NORTH ELECTORAL DISTRICT

$	$	$	
HIGHWAY MAINTENANCE			
Road maintenance			162,265.15
Snow removal			11,945.76
Bridge maintenance			2,492.44

BURNABY NORTH ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		19,138.41	
C-0122 - Minor Betterments, miscellaneous		4,500.00	
C-2107 - Highway 7, Bell Intersection, raise channelization for left turn slot(see also Burnaby-Edmonds)		96,000.50	
N-0370 - Guardrail installation		12,000.00	131,638.91
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Barnet Highway from Sperling Avenue to Clarke Road (see Coquitlam-Moody)		19,596.25	
-Simon Fraser University Access Roads		4,598.03	24,194.28
Traffic Branch:			
Project E-1161 - Route 7 at Holdom, Burnaby,signal and lighting revision			38,514.50
Total, Burnaby-North Electoral District			$371,051.04

BURNABY-WILLINGDON ELECTORAL DISTRICT

$	$	$	
HIGHWAY MAINTENANCE			
Road maintenance			168,951.88
Snow removal			12,431.69
Bridge maintenance			11,648.67
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		19,138.41	
C-0122 - Minor Betterments, miscellaneous		4,500.00	
C-2106 - Highway 1, Willingdon Interchange, reconstruct east bound on-ramp		40,699.79	64,338.20
Construction Branch:			
Project C-3997 - Marine Way,Greenall to Byrne, Burnaby,gravelling and paving			323,249.19
Paving Branch:			
Project S-1748 - Kingsway, Edmonds to Boundary Road(see also Burnaby-Edmonds)			562,563.21

BURNABY-WILLINGDON ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
Burris Street and Edmonds St. with Canada Way intersection surveys for channelization			12,048.53
Highway Safety Branch:			
Project C-0205 - General Safety Works, Assistance in funding for impact attenuators',replacement parts (see also Burnaby-Edmonds and Richmond)			999.00
Traffic Branch:			
Project E-1039 - Canada Way at Burris Street, Burnaby, signal revision		25,500.00	
E-1719 - Route 1A (Kingsway) at Patterson Ave.,Sperling Ave., Burnaby,traffic signal replacement and lighting installation		41,519.42	
E-1796 - Route 1A (Kingsway) Patterson-Edmonds, Burnaby, conduit,pedestal and junction box installation		217,198.12	
E-1800 - Route 1A, (Kingsway) at McKercher Avenue, Burnaby, signal revision		17,864.16	
E-1801 - Route 1A, (Kingsway) at Nelson Avenue, Burnaby, signal revision		21,733.16	323,814.86
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Lougheed Highway		1.00	
-Marine Way, Boundary Road to Byrne Road		100.00	
-Marine Way, Byrne to Queensborough Bridge		50,645.04	50,746.04
EMPLOYMENT DEVELOPMENT ACCOUNT			
Paving Branch:			
Project S-1748 - Kingsway, Edmonds to Boundary Road(see also Burnaby-Edmonds)			261,314.01
Total, Burnaby-Willingdon Electoral District			$1,792,105.28

CARIBOO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			9,880,301.72
Snow removal			4,243,094.41
Bridge maintenance			543,790.53
Ferry maintenance and operation-			
Big Bar Ferry		85,199.90	
Marguerite Ferry		93,138.65	178,338.55

CARIBOO ELECTORAL DISTRICT - continued

		$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS				
Roads:				
Day Labour Project	C-0128 - Minor Betterments, miscellaneous	5,563.00		
	C-0129 - Minor Betterments, miscellaneous	334,462.06		
	C-0141 - Minor Betterments, miscellaneous	71,813.98		
	C-0146 - Minor Betterments, miscellaneous	314,145.61		
	C-1475 - 100 Mile House area, miscellaneous roads,gravelling and ditching	255,704.92		
	C-1825 - Garvin Road and Quesnel River Road, rip rap	34,990.55		
	C-1862 - Likely Road,Bullion to Likely Hill, reconstruction	774,566.70		
	C-1863 - Horsefly Road, Summit Lake to Gravel Creek, reconstruction	759,289.72		
	C-2008 - Highway 97 South,Dragon Hill, widening	1,500,000.00		
	C-2009 - Marsh Drive, 4 laning	525,060.00		
	C-2011 - Nazko area - Pelican Lake clear and gravel	37,000.00		
	C-2012 - Nazko Road to Leeks Bluff, reconstruct and gravel	35,500.00		
	C-2013 - McKnott Bridge to Batnuni, clearing right-of-way and minor realignment	165,500.00		
	C-2014 - Barkerville Highway at Lover's Leap, widening	45,500.00		
	C-2015 - Barkerville Highway, shouldering	36,000.00		
	C-2017 - Blackwater Road at Five Dollar Hill, Quesnel, widening	99,000.00		
	C-2018 - Fraser Road, gravelling	327,500.00		
	C-2019 - Nazko Road,clear for hydro	20,000.00		
	C-2020 - Wells Townsite, ditching	18,500.00		
	C-2021 - Fredlington Road,McLeese Lake, clear and gravel	10,000.00		
	C-2022 - Lagerquist Road,gravelling and surface treatment	34,500.00		
	C-2023 - Roberts Road, gravelling and surface treatment	11,000.00		
	C-2025 - Dunkley Road intersection with Highway 97, Hixon area, construct run-off lane and shoulder widening	20,000.00		
	C-2026 - Rau Road, Quesnel area, hill improvement and gravelling	197,500.00		
	C-2027 - Paradise Road,clearing	20,500.00		
	C-2028 - Tremblay Road,clearing	43,500.00		
	C-2029 - Moffat Road,intersection improvements	10,500.00		
	C-2030 - Puntchesakut Road,school bus pullouts	11,500.00		
	C-2069 - Pigeon Road, reconstruct and pavement preparation	74,337.79		
	C-2070 - Chimney Lake Road, reconstruct and pave	158,351.29		
	C-2071 - Highway 20,Tatla Lake to Anahim Lake, gravel sections	158,008.23		
	C-2072 - Highway 20,Kleena Kleene Bridge approaches, construction	164,661.65		
	C-2073 - Williams Lake miscellaneous roads, reconstruct and gravel	187,441.73		

CARIBOO ELECTORAL DISTRICT - continued

		$	$	$
Roads (continued):				
Day Labour				
Project	C-2074 - Highway 20,Lee's Corner to Alexis Creek, reconstruct		974,995.91	
	C-2075 - Spokin Lake Road,rebuild and spot gravel		13,793.87	
	C-2078 - 108 Mile Road, upgrade		24,938.31	
	C-2079 - Meldrum Creek Road, upgrade and regravel		24,458.50	
	C-2080 - Williams Lake miscellaneous farm and school bus roads, gravel		23,012.40	
	C-2081 - Hanceville to Big Creek, upgrade		29,997.93	
	C-2082 - Nemaia Road,upgrade and regravel sections		19,968.60	
	C-2083 - Red Brush Road,construct		19,992.00	
	C-2084 - Bluff Lake Road,reshape and regravel		24,787.44	
	C-2085 - Tatlayoko Lake Road, upgrade and gravel		19,281.51	
	C-2086 - Dean River Road,construct		74,968.55	
	C-2088 - Black Creek Road,upgrade, reshape, regravel		49,997.69	
	C-2089 - Hagens Point Road,upgrade and regravel		19,945.65	
	C-2090 - Beaver Valley Road,miscellaneous upgrading		22,720.53	
	C-2221 - Loon Lake Road,gravelling and widen		244,306.37	
	C-2223 - Lily Pad Lake Road,reconstruct and gravel		128,845.29	
	C-2224 - Timothy Lake Road,reconstruct and gravel		52,999.61	
	C-2225 - Jesmond Road,reconstruct and gravel		415,627.60	
	C-2226 - 108 Mile area roads, gravelling		157,154.50	
	C-2240 - Ruth Lake Road,upgrading		197,994.81	
	C-2312 - Highway 97 and Fir Crest Road intersection, construction left turn slot		67,194.57	
	C-2313 - Road 318 (Canim Lake-Hendrix Road),installation of a pedestrian underpass within the Canim Lake Indian Reserve near school		70,129.12	
	C-2318 - Loon Lake Road,reconstruction		129,490.42	
	C-2321 - Helena Tatton Road,improvements and gravelling for school bus route extension		42,348.28	
	C-2331 - Bouchie Lake, Quesnel north area roads,prepare for paving		299,906.26	
	C-2332 - Barkerville Highway 26 and feeder roads, prepare for paving		450,000.00	
	C-2403 - Tibbles Road,reconstruction		74,851.05	
	C-2404 - Richards Road,construction to Valhalla		24,744.70	
	C-2515 - Quesnel area miscellaneous gravelling (Richards Road,Durrell Road, Webster Lake Road and Tibbles Road)		174,877.63	
	C-2516 - Paradise Road, clearing and gravelling		144,443.83	
	C-2517 - Highway 20,Bull Canyon, clearing and grading		249,369.69	

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Roads (continued):			
Day Labour			
Project C-2518 - Highway 20, Young Creek, widening		145,749.55	
C-2519 - Williams Lake area miscellaneous gravelling (Horsefly Road, Likely Road, Pigeon Road, Soda Creek Road and Mallard Drive)		150,234.63	
C-2535 - Loloff Road, right-of-way clearing		19,613.85	
C-2565 - 100 Mile House area miscellaneous gravelling		190,951.48	
C-2595 - Fox Mountain Road, relocation and reconstruction		220,185.78	
D-0010 - Rest area upgrading		15,315.14	
N-0380 - Guardrail installation		19,634.09	
N-0430 - Guardrail installation		40,000.00	
N-0435 - Guardrail installation		19,992.00	
W-0351 - Fencing Schedule 2 Highways		84,029.89	
W-0357 - Fencing Schedule 2 Highways		108,151.79	
W-0362 - Fencing Schedule 2 Highways		129,998.02	11,872,896.07
Construction Branch:			
Project C-1710 - Cariboo Highway 97, North Star Interchange, Quesnel, construction		459,548.76	
C-4176 - Highway 24, Bridge Lake to Little Fort, reconstruction		1,735,812.03	2,195,360.79
Roadside Development and Landscape Branch:			
Project D-1819 - Cariboo Highway 97, Carson Drive to Lakeview Crescent, landscape development, Williams Lake			183,382.09
Bridges and Ferry Landings:			
Day Labour			
Project B-2263 - Bear River Bridge, construct replacement		299,121.02	
B-2264 - Fraser Bridge, redeck		153,614.85	
B-2271 - Crazy Creek Bridge, construct replacement		40,000.00	
B-2272 - Alexis Creek Bridge, major repairs		69,999.98	
B-2350 - Gaspard Creek Bridge, replace after washout		18,780.96	
B-2351 - Boule Bridge, reconstruction		23,882.30	605,399.11
Bridge Branch:			
Project B-1115 - Baker Creek Bridge, Marsh Drive, Quesnel, improvements and widening			157,420.50
Paving Branch:			
Project S-1454 - Barkerville Highway 26, Wingdam to Bowron Rd., asphalt surfacing		7,733.95	
S-1728 - Highway 24 and Horse Lake Road, west of Bridge Lake		171,237.83	
S-1764 - Chilcotin Highway 20, 81.8 km to 112.3 km, Alexis Creek miscellaneous streets		206,410.30	
S-1768 - Highway 26, Quesnel area miscellaneous roads		78,153.30	
S-1784 - Highway 97, Marquerite-Quesnel section and miscellaneous roads, Kersley area		3,172,795.32	3,636,330.70

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-13 km West of Kleena Kleene		424.68	
-150 Mile House,curve realignment		3,599.52	
-Cariboo Highway 97, 92 Mile House to 83 Mile House		35,018.61	
-Cariboo Highway 97, Cache Creek-Loon Lake Road		9,063.00	
-Comer to Weldwood Access on Mackenzie Avenue, Glendale Drive, curb and gutter		121,765.45	
-Deutch Slide, West Fraser Road		13,540.11	
-Dragon Lake-Quesnel		51,000.34	
-Highway 20,Alexis Creek-Bull Canyon		21,368.69	
-Highway 97 north of Williams Lake Minton Creek - Dallas Road		80.92	
-Kleena Kleene Gazette Survey		359.37	
-Lac Des Roches to 100 Mile House		18,025.15	
-Little Fort-Lac Des Roches (see also Kamloops)		11,333.32	
-North Star interchange,Quesnel		3,262.85	
-Quesnel bypass		116,712.94	
-Williams Lake,Fox Mountain Road		1,090.71	406,645.66
Highway Safety Branch:			
Project C-0205 - General Safety Works,			
-Dog Creek Road from Schmidt Road to Gibbon Road on the north side, build walking path behind ditch line		6,713.00	
-Mackenzie Avenue from Pine Street to Boundary Street on north side, build walking path behind ditch line		12,077.00	18,790.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-1. N.Bonaparte Road and Eagan Lake Road, in D.L.'s 1884, 1897,1883 and 1896 2. Knight Lake Road, in D.L.'s 1883, 1490 and 4973, Lillooet District		11,748.53	
-Anahim's Meadow Road N.Bdy., Anahim's Meadow I.R.2 to N.Bdy., D.L.708, Cariboo District		3,256.00	
-Bella Coola-Chilcotin Highway 20-W.Bdy.Lot 405 to W.Bdy.Lot 277 R3 C.D.		488.48	
-Bella Coola-Chilcotin Highway 20 1. E.Bdy.D.L.559,S.Bdy.D.L.1358 2. N.Bdy.D.L.216 E.Bdy.D.L.382 R.2, Cariboo District		15,500.00	
-Bella Coola-Chilcotin Highway 20 E.Bdy.L.381 to W.Bdy.Lot 12248 C.D.		7,674.35	
-Canim Lake Indian Reserve 1, Blocks A and B of D.L.2076 and D.L. 2077, Cariboo District-Canim Lake South Road 729		6,599.38	
-Cariboo Highway widening through remainder of Lots 9, 10 and 11, Plan 12087 in D.L.8869, Cariboo District		898.00	
-E.Bdy.L.11905 to L12653,Cariboo District Abbott Heights Road		3,005.40	
-Explanatory Plan through Lot B Plan 20935 D.L.7679 L.D. (drainage easement Canim Lake Road 318)		632.75	

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office: (continued)			
Legal Surveys - Project L-0099			
-Through part of Anahim's Flat Indian Reserve 1, Bella Coola-Chilcotin - Highway 20		5,107.39	
-Through parts of D.L.'s 7282 and 8908, Cariboo District, Fraser Road 32		4,045.10	
-Through S.W.1/4, Section 33, Township 52, Bella Coola-Chilcotin Highway 20, Lillooet District		4,389.33	63,344.71
Traffic Branch:			
Project E-1816 - Marsh Drive at Malcolm Street, Quesnel, signal and lighting revision		71,393.70	
E-2306 - Rte.97-North Star Road to Maple Drive, Quesnel, lighting and flashing beacon installation		102,992.32	
E-2310 - Route 97 at North Star Road Interchange, Quesnel, lighting installation		55,526.00	229,912.02
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Anahim's Meadow Road		920.56	
-Baker Creek		65,000.00	
-Cariboo Highway 97		103,271.58	
-Cariboo Highway 97, North Star Road to Maple Drive		964,004.28	
-Cariboo Highway 97, Two Mile Flat, Quesnel		165.03	
-Chilcotin-Bella Coola Highway 20		74,155.91	
-Chimney Lake Road		38,692.22	
-Crick Road 835		1.00	
-Dodge Frontage Road		972.00	
-Eagan Lake Road 551		2,500.00	
-Eagle Creek Road 332		13,814.94	
-Eberding Road 36		1,404.00	
-Empire Valley Road 77		600.00	
-Fox Mountain Road 381		6,531.00	
-Fraser Road 32		5,880.00	
-Graham Street 202		10,232.46	
-Gravel pits		270.61	
-Highway 24		2.00	
-Highway 24-93 Mile to Little Fort		20,374.00	
-Hill Road 14		28,569.20	
-Houseman Road 346		45.00	
-Keithley Creek Road 105		675.00	
-Knife Creek Road		885.00	
-Knight Lake Road 457		2,000.00	
-Lepetich Road 184		3,400.00	
-Likely Road 115		12,427.62	
-Lily Pad Lake Road 376		3,448.55	
-Long Bar West Road 937		2,249.00	
-Loon Lake Road 128		12,797.25	
-Nazko Road 59		15,583.28	
-North Bonaparte Road 386		4,450.00	
-Puntchesakut Lake Road		5,000.00	
-Rau Road 103		250.00	
-South Lakeside Drive 352		3,000.00	
-Tatlayoko Road 405		5,396.04	
-Valhalla Road 697		20,101.00	1,429,068.53

CARIBOO ELECTORAL DISTRICT - continued

	$	$	$
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1693 - City of Williams Lake, Glendale restructuring grant			232,421.83
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads			
Construction Branch:			
Project C-1710 - Cariboo Highway 97, North Star Interchange, Quesnel, construction		2,254,917.12	
C-4176 - Highway 24, Bridge Lake to Little Fort, reconstruction		4,162,612.45	6,417,529.57
Paving Branch:			
Project S-1728 - Highway 24 and Horse Lake Road, west of Bridge Lake		3,002,328.30	
S-1764 - Chilcotin Highway 20, 81.8 km to 112.3 km, Alexis Creek miscellaneous streets		2,562,394.05	
S-1768 - Highway 26, Quesnel area miscellaneous roads		3,249,929.59	
S-1784 - Highway 97, Marquerite-Quesnel Section and miscellaneous roads Kersley area		1,794,030.81	
S-2397 - Highway 97, Barkerville Road junction to Plett Road, pavement milling		253,339.72	10,862,022.47
Total, Cariboo Electoral District			53,156,049.26

CENTRAL FRASER VALLEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			604,167.85
Snow removal			192,615.02
Bridge maintenance			36,592.73
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0120 - Minor Betterments, miscellaneous		59,280.00	
C-0122 - Minor Betterments, miscellaneous		3,785.00	
C-2115 - Sumas Mountain Road, reconstruct widen and gravel		40,000.00	
W-0792 - Fencing Schedule 2 Highways		59,400.00	162,465.00
Construction Branch:			
Project C-1777 - Beck Road Bypass, construction			159,842.58
Roadside Development and Landscape Branch:			
Project D-3714 - Trans Canada Highway, Abbotsford(Bradner Road), rest area		56,019.87	
D-3716 - Cole Road Rest Area, Chilliwack, landscape development		3,066.32	59,086.19

CENTRAL FRASER VALLEY ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Highway 11, Abbotsford-Mission mapping (see also Dewdney)		25.27	
-Highway 401-Peardonville overhead approach		218.00	
-Miscellaneous "C" Street, interchange to Lougheed, Mission (see also Dewdney)		46,820.60	47,063.87
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of statutory right-of-way for highway through parts N.W. 1/4, Sec.3, Tp.17 and D.L.410, Group 2 N.W.D.,Harris and Riverside Roads, Matsqui			1,654.65
Traffic Branch:			
Project E-2324 - Route 7 at Hurd Road, and at New Route 11, Mission, electrical conduit and junction box installation			8,017.25
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Abbotsford "C" Street, Maclure (via Beck)		1.00	
-Trans Canada Highway 1,Clearbrook Interchange		28,886.00	28,887.00
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0712 - 186B, South Fraser Way, District of Matsqui		28,815.00	
V-2453 - 202B, 3 Road, District of Abbotsford		1,050.00	29,865.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1777 - Beck Road Bypass, construction			626,453.77
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2349 - Old Yale Road Underpass, Highway 11			705,071.23
Total, Central Fraser Valley Electoral District			$2,661,782.14

CHILLIWACK ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,112,335.78
Snow removal			356,376.15
Bridge maintenance			71,411.44

CHILLIWACK ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0120 - Minor Betterments, miscellaneous		108,680.00	
C-0122 - Minor Betterments, miscellaneous		13,132.00	
C-0156 - Hemlock Valley Road, widen gravel and drainage		158,840.00	
C-0804 - Rockwell Drive, Greenpoint north, reconstruct		76,000.00	
C-2110 - Chilliwack Lake Road, recap, pave and shoulder		152,000.00	
C-2114 - Morris Valley Road, reconstruct and recap		100,000.00	
C-2116 - Highway 1 and 7, various sections, clearing and brushing (see also Yale-Lillooet)		20,000.00	
C-2117 - Highway 1, Clearbrook Interchange, reconstruct		620,000.00	
C-2121 - Columbia Valley Road, recap		82,000.00	
C-2124 - Ryder Lake area roads, regravel		15,000.00	
C-2125 - Chilliwack Lake area roads, regravel		15,000.00	
C2126 - Columbia Valley area roads, regravel		30,000.00	
C-2339 - Chilliwack area miscellaneous paving		100,000.00	
C-2487 - Columbia Valley Road, rock cut and realign		75,000.00	
C-2498 - Columbia Valley Highway, recap		75,000.00	
C-2499 - Chilliwack Lake Road,recap		85,000.00	
C-2551 - Morris Valley Road, reconstruct and gravel ready for paving		100,000.00	
W-0792 - Fencing Schedule 2 Highways		30,600.00	1,856,252.00
Roadside Development and Landscape Branch:			
Project D-2392 - Trans Canada Highway 1, Chilliwack, screen planting			7,000.00 cr
Bridges and Ferry Landings:			
Day Labour			
Project B-1414 - Dewdney Bridge, replace pile caps		62,000.00	
B-2236 - Weaver Creek Bridge, reconstruct		77,278.65	
B-2239 - Eagle Mill Bridge, Legace Creek, construction		208,029.15	
B-2441 - Morris Valley 1,construct concrete stringer bridge		43,000.00	
B-2442 - Malcolm Road Bridge, construct concrete stringer bridge		18,000.00	
B-2443 - Morris Valley 2,construct precast concrete stringer bridge		28,675.80	436,983.60
Paving Branch:			
Project S-0652 - Schedule I: Evergreen Drive and Cheam Avenue, Agassiz (0.542km) Schedule II: Highway 9, North of Agassiz-Rosedale Bridge(1.1km) Schedule III: Highway 1 and miscellaneous streets in Yale (4.03km) (see also Yale-Lillooet)		7,358.37	

CHILLIWACK ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch: (continued)			
Project S-1405 - Sumas Canal to Chilliwack River Road section of the Trans Canada Highway 1 and Yale Road West		19,873.98	
S-1749 - Highway 1 and 7, Popkum area roads, Lake Errock to junction of Highway 9(see also Dewdney)		678,905.66	706,138.01
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Minor road surveys		660.27	
-Trans Canada Highway Gibson Road and Annis Road (underpasses)		10,695.26	
-Trans Canada Highway Overpass at Ford Road		571.00	
-Trans Canada Highway, Vedder Road Interchange		601.00	12,527.53
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination,			
-Impact attenuator at C.P. overpass, Route 7 in Agassiz		2,190.06	
C-0204 - School Route Improvements,			
-Shook Road, shoulder paving for pedestrian traffic for school children		24,784.51	26,974.57
Traffic Branch:			
Project E-1829 - Route 1 at Clearbrook Road interchange, Clearbrook, lighting installation			33,202.91
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Agassiz curb and gutter Evergreen Drive and Cheam Avenue		1,006.83	
-Bourne Road 201		252,436.05	
-Eckman Road and Yellowhead Highway 16		144.73	
-Gibson Road Overpass		191,790.00	
-Popkum Road		1.00	
-Yale Road west		1,115.00	446,493.61
Municipal Programs Branch:			
Amalgamation Grants			
Project O-2601 - District of Chilliwack, grant to improve arterial Highway 752R Yale Road West			275,000.00
Secondary Highway Construction and Improvements			
Project V-0779 - 62B, Sardis (Vedder) Road, District of Chilliwack			40,848.95
EMPLOYMENT DEVELOPMENT ACCOUNT			
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1716 - Gibson Road Underpass, Trans Canada Highway 1			594,266.49
Total, Chilliwack Electoral District			$5,961,811.04

COLUMBIA RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,396,413.12
Snow removal			1,026,770.63
Bridge maintenance			226,049.45
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0135 - Minor Betterments, miscellaneous		87,478.12	
C-0137 - Minor Betterments,			
-Miscellaneous roads, Golden	138,800.00		
-Miscellaneous roads, Invermere	96,100.00	234,900.00	
C-1492 - Toby Creek cutoff, 0.6 km to 5.3 km, reconstruction		75,000.00	
C-1660 - Trans Canada Highway 1, Golden, shouldering		150,000.00	
C-1781 - Pighin Road, reconstruct and gravel		105,310.00	
C-1782 - Highway 95A, Wycliffe to Marysville, improvements		253,450.00	
C-1895 - Lazy Lake Road, reconstruction		200,000.00	
C-1896 - Sheep Creek Road, reconstruction		132,690.00	
C-1900 - Mission Wasa Low Road, gravel and pave		50,850.00	
C-1914 - Chalmer Road, reconstruction		15,000.00	
C-1915 - Spence Road, reconstruction		25,000.00	
C-1916 - Golden miscellaneous roads, gravelling		95,000.00	
C-1917 - Westside Road, reconstruction		200,000.00	
C-1918 - Golden-Donald Upper Road, reconstruction		300,000.00	
C-1919 - Hartley Road, reconstruction		100,000.00	
C-1920 - Trans Canada Highway 1 at Hartley Road, construct left turn slot		35,000.00	
C-1921 - Invermere area miscellaneous roads, pavement recap		225,000.00	
C-2401 - Panorama subdivision road, paving		95,000.00	
N-0387 - Guardrail installation		42,000.00	
W-0353 - Fencing Schedule 2 Highways		2,014.22	
W-0355 - Fencing Schedule 2 Highways		27,000.00	2,450,692.34
Construction Branch:			
Project C-1839 - Highway 1, Park Bridge-Yoho Bridge, passing lanes			374,104.06
Bridges and Ferry Landings:			
Day Labour			
Project B-1510 - Musquash Bridge, new single span box beam		79,562.26	
B-2370 - Horsethief Bridge, replace bents due to extensive flood damage		14,842.00	
B-2545 - Donald Overpass, galvanizing bridge rails		5,000.00	99,404.26
Paving Branch:			
Project S-1797 - Highway 95A, miscellaneous roads, Cranbrook area (see also Kootenay)			342,716.32

COLUMBIA RIVER ELECTORAL DISTRICT - continued

	$	$
Planning and Engineering Services		
Highway Design and Surveys Branch:		
Surveys Generally - Project L-0101		
-Fort Steele - Bull River	304.00	
-Highway 93/95, left turn slots	28,301.05	
-Highway 95A extensions in Kimberley	613.00	
-Kootenay Columbia, alternate from: Section 1 Blanchmont Hill 48th Street to Burdette Street to: Section 2 Halpin Corner	2,979.00	
-Kootenay-Columbia Highway, Golden Bypass	10,958.15	
-Minor road surveys	64,463.07	
-Trans Canada Highway, Golden - Yoho Bridge	39,950.11	
-Trans Canada Highway, east of Yoho Bridge	9,401.17	156,969.55
Highway Safety Branch:		
Project C-0205 - General Safety Works, installation of 13 wheelchair ramps, 1 in Cranbrook and 12 in Kimberley on arterial highways (see also Kootenay)		2,617.50
Legal Surveys Office:		
Legal Surveys - Project L-0099		
-Reference plan of statutory right-of-way over Parcel A, Plan B 6958 D.L.5485 and remainder of D.L.5485 except Plan B 6958, 25011, 25081 and 31721, Lillooet District, drainage easement(see also Kootenay)	1,529.98	
-S.Bdy.,S.L.30B, D.L.4596 to N.Bdy. L.28 K.D. 2.0 km Findlay Creek Road 8	4,858.04	6,388.02
Property Services Branch:		
Rights-of-way and Property Purchases		
Project P-0113		
-Allen Road 201	1,000.00	
-Athalmer Overpass	7,000.00	
-Brisco Road 9	2,120.00	
-Golden Donald Upper Road 42	3,004.60	
-Highway 95A, Kimberley	30,230.00	
-Lafontaine Road	1,260.00	
-Lazy Lake Road 32	1.00	
-Mabel Road 364	2,355.00	
-Moan Road 307	25.00	
-Stirton Road 261	3,150.00	
-Wycliffe Store Road 78	700.00	50,845.60
Municipal Programs Branch:		
Amalgamation Grants		
Project O-1740 - Village of Invermere, municipal restructure grant		40,000.00
EMPLOYMENT DEVELOPMENT ACCOUNT		
Roads:		
Construction Branch:		
Project C-1839 - Highway 1, Park Bridge-Yoho Bridge, passing lanes		648,102.30
Paving Branch:		
Project S-1766 - Highway 1 and Golden miscellaneous roads (17.4 km)	1,013,824.79	
S-1797 - Highway 95A, Cranbrook area, miscellaneous roads (see also Kootenay)	570,125.78	1,583,950.57
Total, Columbia River Electoral District		$10,405,023.72

COMOX ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,225,071.91
Snow removal			418,135.06
Bridge maintenance			203,787.39
Ferry maintenance and operation-			
Comox-Powell River Ferry (see also MacKenzie)		2,601,265.29	
Denman Island Ferry		1,266,733.17	
Hornby Island Ferry		1,083,766.04	
Lasqueti Island Ferry subsidy		194,000.00	5,145,764.50
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		3,000.00	
C-0154 - Minor Betterments, miscellaneous		32,725.33	
C-0155 - Minor Betterments, -Back Road, upgrade and pave	54,773.73		
-Miscellaneous	76,540.31	131,314.04	
C-1798 - Highway 19, Courtenay-Black Creek, prepare for paving		2,436,953.55	
C-2160 - Goodyear and Grovehill Roads, construct, reconstruct		105,240.50	
C-2163 - Island Highway 19, Eaglecrest Drive, construct left turn slot		140,625.31	
C-2164 - Gainsberg Road, widen, recap		84,480.87	
C-2165 - Courtenay area roads, gravel surface-treatment		79,193.41	
C-2168 - Lacon Road, widen, gravel, pave, upgrading		110,000.00	
C-2169 - Highway 19, Courtenay, Tsolum riverbank protection		166,599.32	
C-2172 - Condensory Road, crush and pave		110,425.83	
C-2176 - Hornby Island, drainage improvement and brushing		20,489.00	
C-2179 - Headquarters Road, ditch, widen, strengthen, re-pave		213,373.19	
C-2539 - Campbell River and Courtenay areas, miscellaneous patch paving (see also North Island)		224,117.13	
C-2541 - Highway 19, Parksville-Qualicum (including Lantzville, Qualicum Bay, Nanoose Bay, and French Creek areas), miscellaneous paving (see also Nanaimo)		407,674.20	
C-2574 - Higginson and Delanice Roads, pave		72,863.04	
C-2586 - Denman Island, slide removal		4,965.25	
C-2587 - Hornby Island, drainage		8,095.70	
C-2588 - Hawkins Road, Courtenay, paving		34,983.82	
C-2610 - Highway 4, Cameron Lake Section, recap		50,000.00	
C-2615 - Courtenay area roads, ditching and gravelling		50,719.25	4,487,838.74

COMOX ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2131 - Courtenay River Bridge, Island Highway 19 at Courtenay, cleaning and painting			74,791.26
Ferries:			
Project H-1125 - Princess of Vancouver, conversion to roll-on, roll-off vehicle ferry (see also MacKenzie)			10,288.69
Paving Branch:			
Project S-1742 - Highway 19, Island Highway, Courtenay to Black Creek Bridge and miscellaneous roads			105,543.95
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Canadian Highway 4, West Boundary Lot 9 to Alberni Junction (see also Alberni)		586.00	
-Coleman Road - Lazo Road		9,121.96	
-Courtenay Arterial, curb and gutter, Embleton Road to 21st Street		5,753.78	
-Island Highway from Parksville, curb and gutter		682.45	
-Minor road surveys		66,964.12	83,108.31
Highway Safety Branch:			
Project C-0204 - School Route Improvements, shoulder widening and paving, Lake Trail Road, Courtenay			22,163.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Giant Powder Works Road 497, through Lot A, Plan 13317, D.L.6, Nanoose District		475.00	
-Island Highway referencing monuments, Coleman Road to Black Creek		23,738.29	
-Island Highway, Dingwall Road to Coleman Road		23,753.93	
-Merecroft Road through part Lots 1 and 2, Plan 19551 within fractional N.W. 1/4 Section 31, Township 1, Comox District		544.66	
-Qualicum Bypass from part of Lot 26, Block 2, District Lot 55, Newcastle		125.00	
-Through Part Lot A, Plan 14124 and Lot B, Plan 19115 Block 29, Comox District, Saratoga Road 680		1,235.25	49,872.13
Traffic Branch:			
Project E-1610 - Route 19 at Pym Road, Parksville, signal and lighting installation		1,538.00	
E-2191 - Route 19, Vanier Drive to Endall Road/Fairview Road, Courtenay, lighting installation		108,050.83	109,588.83

COMOX ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-17th Street Crossing, Cliffe Avenue to Dingwall Road		296,321.88	
-Alberni Highway 4		1.00	
-East Road - Denman Island		1,275.07	
-Gravel pits		572,262.85	
-Headquarters Road 10		4,157.50	
-Highway 19 - Courtenay North		208,873.92	
-Island Highway-Lantzville to Craig's Crossing		42,024.44	
-Muir Road 123		2,500.00	
-Old Logging Railway		1,094.24	
-Parksville/Qualicum Bypass		82,500.00	
-Qualicum Bypass		1.00	
-Union Bay		15,000.00	1,226,011.90
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1635 - 223B, Cumberland Road, City of Courtenay		26,551.00	
V-1668 - 266B, Courtenay-Cumberland (4th Street and Cumberland Road), Village of Cumberland		7,900.00	34,451.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0656-Nanoose Overhead duplicate and modifications, Island Highway 19			310.00
Paving Branch:			
Project S-1742 - Highway 19, Island Highway, Courtenay to Black Creek Bridge and miscellaneous roads			2,500,954.12
Total, Comox Electoral District			$17,697,680.79

COQUITLAM-MOODY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			307,381.49
Snow removal			30,451.56
Bridge maintenance			43,733.00
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		8,796.28	
C-0122 - Minor Betterments, miscellaneous		5,000.00	
C-2108 - Sunnyside Road, reconstruct		150,000.00	163,796.28

COQUITLAM-MOODY ELECTORAL DISTRICT - continued

	$	$	$
Construction Branch:			
Project C-1148 - Colony Farm Overhead roadworks		51,933.53	
C-4092 - Cape Horn-Pitt River Highway Mary Hill Bypass, recoveries from Urban Transportation Assistance Program		45,059.44cr	6,874.09
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1374 - Colony Farm Overhead, Cape Horn to Pitt River Highway			9033.08
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Barnet Highway to Ioco Road		6.80	
-Barnet Highway from Sperling Avenue to Clarke Road (see also Burnaby North)		10,551.83	
-Ioco Overhead to Sharpe Road		101.55	
-Minor road surveys		51.00	10,711.18
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of Statutory right-of-way for Highway, Lougheed Highway widening in remainder Lot 11, Plan 2719, Block A, D.L.1, Group 1, N.W.D.			550.00
Traffic Branch:			
Project E-1570 - Route 7 at Colony Farm O/H, Coquitlam, lighting installation		123,058.59	
E-2320 - Route 7 (Lougheed Highway) at Bell Avenue, Burnaby, lighting installation		18,985.80	
E-2384 - United Way (Lougheed Highway Connector), Coquitlam, lighting installation		42,989.40	
E-2423 - Route 7 at Coast Meridian, Coquitlam, signal and lighting revision		20,071.70	205,105.49
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Mary Hill Bypass			148,670.00
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1302 - 265B, Knowle Drive, City of Port Moody			150,000.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1743 - Mary Hill Bypass, Stage 2, Cape Horn to Pitt River			5,019,332.55
Total, Coquitlam-Moody Electoral District			$5,095,638.72

COWICHAN-MALAHAT ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,232,259.92
Snow removal			191,066.20
Bridge maintenance			156,219.46
Ferry maintenance and operation- Thetis Island Ferry			1,078,937.28
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0152 - Minor Betterments, miscellaneous		225,139.49	
C-2059 - Riverside Road, reconstruct and pave		71,999.23	
C-2140 - Sylvester Road, reconstruct and pave		98,998.89	
C-2142 - South Shore Road, reconstruct		137,498.69	
C-2143 - Pilkey Point Road, reconstruct and pave		65,499.06	
C-2538 - Cassidy, Duncan, and Lake Cowichan areas, miscellaneous patch paving (See also Nanaimo)		274,636.73	
C-2568 - Crofton Road, Duncan, pave		99,988.96	
N-0395 - Guardrail installation		13,002.00	
W-0365 - Fencing Schedule 2 Highways		17,014.50	1,003,777.55
Construction Branch:			
Project C-1842 - Trans Canada Highway 1, Koksilah Road, Duncan, 4 laning			107,414.72
Roadside Development and Landscape Branch:			
Project D-2491 - Trans Canada Highway 1, Duncan, Development Road to Allenby Road, landscape development			13,071.00
Bridges and Ferry Landings:			
Day Labour			
Project B-2276 - Ashburnham Bridge, replace with box beam			110,000.00
Bridge Branch:			
Project B-1332 - Koksilah River Bridge, Trans Canada Highway, 2 miles south of Duncan		291,426.84	
B-1734 - Koksilah pedestrian overpass, Trans Canada Highway		314,983.90	606,410.74
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Crofton access Trans Canada at Mt. Sicker		4,258.00	
-Mill Bay-Cowichan Golf Course		9,892.14	
-Minor road surveys		46,820.40	
-Trans Canada Highway 1, Malahat		1,377.08	
-Trans Canada Highway South of Duncan		3,154.50	65,502.12

COWICHAN-MALAHAT ELECTORAL DISTRICT - continued

	$	$	$
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, Cobble Hill and Hutchinson Road, widen shoulder and relocate ditch			5,871.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of statutory right-of-way for highway through parts of section 3, range 3 and 4, Cowichan District, Parker Road		2,699.65	
-Trans Canada Highway, part section 20, Quamichan District, tourist information site		1,191.80	3,891.45
Traffic Branch:			
Project E-0343 - Route 1 at Allenby Road, Duncan, lighting and signal installation		1,150.00	
E-2367 - Route 1 at Bench Road, Duncan area, lighting and flashing beacon installation		6,317.00	
E-2385 - Route 1 at Cowichan Bay Road, Duncan, lighting and flashing beacon installation		7,091.00	
E-2386 - Route 1 at Deloume Road, Mill Bay, signal installation and lighting revision		35,594.00	
E-2471 - Route 1 at Smiley Road, Route 1 at Beverly Street, North Cowichan, lighting installation		4,725.00	54,877.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Chapman Road		27,761.31	
-Cowichan Lake Road		2,111.00	
-Gravel pits		20,000.00	
-LaFortune and Kilipi Roads		18,164.93	
-Polkey Road		575.00	68,612.24
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1842 - Trans Canada Highway 1, Koksilah Road, Duncan, 4 laning			489,202.70
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1332 - Koksilah River Bridge, Trans Canada Highway, 2 miles south of Duncan			910,958.13
Total, Cowichan-Malahat Electoral District			$7,098,071.51

DELTA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			849,555.43
Snow removal			40,939.54
Bridge maintenance			93,476.98
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		24,024.03	
C-0122 - Minor Betterments, miscellaneous		3,000.00	
W-0793 - Fencing Schedule 2 Highways		9,000.00	36,024.03
Construction Branch:			
Project C-1122 - Fraser River Crossing (Annacis Island), construct engineering access road		4,859.17	
C-1583 - Fraser River Crossing (Annacis Island), test fill		335,315.67	
C-1584 - Fraser River Crossing (Annacis Island), Nordel Interchange, purchase of hog fuel		557,728.00	
C-2494 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough mainline: Nordel Overpass to South Abutment, construction		18,441.65	
C-3325 - Highway 99, George Massey Tunnel, installation of sprinkler system (see also Richmond)		7,480.00	923,824.49
Bridges and Ferry Landings:			
Day Labour			
Project B-2233 - Canoe Pass Bridge, rebuild swing span			30,000.00
Bridge Branch:			
Project B-1666 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, pile driving and load tests (see also New Westminster and Richmond)		208,546.02	
B-2444 - Fraser River Crossing (Annacis Island), insurance premiums (see also New Westminster)		133,123.50	341,669.52
Paving Branch:			
Project S-1738 - Lower mainland, miscellaneous roads in New Westminster Highway District (see also Richmond and Surrey)			379,384.58
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0038 - Fraser River Crossing (Annacis Island), geotechnical investigations (see also New Westminster and Richmond)			169,844.28
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Miscellaneous Roberts Bank Railway crossings	13,078.52		
-Scott Road from Highway 1 to Highway 10 (see also Surrey)	1,321.11	14,399.63	

DELTA ELECTORAL DISTRICT - continued

	$	$	$
Highway Design and Surveys Branch: (continued)			
Surveys Generally - Project L-0101			
L-0558 - Fraser River Crossing (Annacis Island), south side of Fraser River to Highway 99		178,628.78	
L-1359 - Fraser River Crossing (Annacis Island), archaeological explorations, St. Mungo's Cannery		206,282.07	399,310.48
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, frangible lamp standard bases			6,967.00
Planning Branch:			
Project O-1188 - Fraser River Crossing (Annacis Island), project study, preliminary design planning (see also New Westminster)		33,892.31	
O-2419 - Fraser River Crossing (Annacis Island), relocation of Burlington Northern Railway		833.56	34,725.87
Traffic Branch:			
Project E-2341 - Route 99, U.S. Border to 5 Road, directional signs installation (see also Richmond and Surrey)			7,109.73
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0599 - Fraser River Crossing (Annacis Island)			14,111,776.88
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1150 - Fraser River Crossing (Annacis Island) Highway 99 - Queensborough Bridge, supply of dredged material		2,594,263.55	
C-1593 - Fraser River Crossing (Annacis Island) Highway 99 to Queensborough Bridge, pier protection works and dredging (see also New Westminster)		1,659,710.73	
C-2410 - Fraser River Crossing (Annacis Island) Highway 99 to Queensborough Bridge, Lulu Island, dredging contract (see also New Westminster and Richmond)		10,153.92	
C-2451 - Fraser River Crossing (Annacis Island) Highway 99 - Queensborough Bridge, L-line grading: Sta. 169 to Sta. 175+20		135,679.40	
C-2495 - Fraser River Crossing (Annacis Island) Highway 99 to Queensborough Bridge, 84th Connector, construction		54,815.66	4,464,623.26
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0895 - Fraser River Crossing (Annacis Island), main span (see also New Westminster)		3,103,424.22	
B-1404 - Fraser River Crossing (Annacis Island), design and construction of miscellaneous minor structures (see also New Westminster)		26,357.95	3,129,782.17

DELTA ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch:			
Project S-1738 - Lower mainland miscellaneous roads in New Westminster Highway District (see also Richmond and Surrey)			25,147.64
Total, Delta Electoral District			$25,044,161.88

DEWDNEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,064,515.13
Snow removal			216,442.43
Bridge maintenance			119,849.47
Ferry maintenance and operation-Albion-Fort Langley Ferry (see also Langley)			931,706.06
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		7,959.42	
C-0120 - Minor Betterments, miscellaneous		74,100.00	
C-0122 - Minor Betterments, miscellaneous		5,000.00	
C-2111 - Stave Lake Road, reconstruct		84,435.50	
C-2118 - Sylvester Road, recap		33,500.00	
C-2123 - Nicomen Island Roads, regravel		15,000.00	
C-2485 - Highway 7, Nicomen Island, major patching		60,000.00	
C-2490 - Farms and Stave Lake Road, (Hatzic Lake area), raise to flood proof		40,000.00	
N-0370 - Guardrail installation		6,000.00	325,894.92
Construction Branch:			
Project C-1799 - Highway 11, Mission Overhead approaches		215,391.21	
-Construct concrete columns		462,978.44	
-Recoveries from Urban Transportation Assistance Program		758,053.56cr	79,683.91cr
Bridges and Ferry Landings:			
Day Labour			
Project B-2234 - Sturgeon Slough Bridge, widen			50,000.00
Bridge Branch:			
Project B-1709 - Mission Overhead over C.P.Railway, Abbotsford-Mission Highway 11		594,825.15	
-Recoveries from Urban Transportation Assistance Program		309,618.38cr	285,206.77

DEWDNEY ELECTORAL DISTRICT - continued

	$	$	$
Ferry Landings:			
Project B-2314 - Albion Ferry Terminal, replace dolphin			125,000.00
Paving Branch:			
Project S-1749 - Highways 1 and 7 Popkum area roads, Lake Errock to junction of Highway 9 (see also Chilliwack)		1,206,943.39	
S-1751 - Highway 7 - Lougheed Highway, Stave River to Mission		8,348.72	1,215,292.11
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Highway 11, Abbotsford-Mission mapping (see also Central Fraser Valley)		25.27	
-Layout of first curve-north approach to Mission Bridge		13,357.57	
-Lougheed Highway from Haney to Silver Creek		31,008.95	
-Minor road surveys		8.80	
-Miscellaneous "C" Street Interchange to Lougheed, Mission (see also Central Fraser Valley)		46,820.59	
-Silverdale Creek - Hurd Road		15,145.19	
-Sylvester Road from Rampart Bridge to Seux Road		55.50	106,419.87
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of statutory right-of-way for Highway through part Lots 9 and 10, Plan 2882, D.L.411, except Parcel A, Ref. Plan 5415 and Highway Plan 43417, N.W.D.		850.64	
-Through D.L.542 and N.W. 1/4, Section 35, Township 3, Range 30, W6M 2.0 km+, Morris Valley Road 108		2,400.00	
-Through Part of Sec.5, Tp.24 and Lakahahme I.R. 11, E.C.M.N.W.D., North Nicomen Road		3,749.40	7,100.04
Traffic Branch:			
Project E-1767 - Route 7 (Lougheed Highway) Haney-Albion, signal and lighting installation			8,734.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Haney-Silverdale		616,957.83	
-Haney Business Bypass		6,631.19	
-Lougheed Highway at Fraser Crescent, Mission		38,589.00	662,178.02
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0717 - 74B, Harris Road, District of Pitt Meadows		17,161.00	
V-0719 - 79B, McNeil Road, District of Pitt Meadows		123,003.00	
V-0731 - 253B, Dewdney Trunk Road and 224th Street, District of Maple Ridge		160,798.85	
V-0737 - 283B, Grand Street, Seventh Avenue and Cedar Valley Street, District of Mission		100,000.00	400,962.85

DEWDNEY ELECTORAL DISTRICT - continued

	$	$	$
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1690 - Haney to Albion-Lougheed Highway, widening including the Kanaka Creek Bridge		3,170,287.27	
C-1799 - Highway 11, Mission Overhead approaches	1,311,481.74		
-Construct concrete columns	15,819.79		
-Gravelling and paving	57,025.06		
-Recoveries from Urban Transportation Assistance Program	302,320.94cr	1,082,005.65	4,252,292.92
Paving Branch:			
Project S-1751 - Highway 7 - Lougheed Highway, Stave River to Mission			495,391.49
Total, Dewdney Electoral District			$10,187,302.17

ESQUIMALT-PORT RENFREW ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,022,048.11
Snow removal			170,357.72
Bridge maintenance			198,132.35
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0153 - Minor Betterments, miscellaneous		135,115.50	
C-2145 - Highway 1A, Admirals to Four Mile Hill, curb-pave walk		17,592.00	
C-2146 - Highway 1, Bellamy to Spencer, machine patch		54,711.25	
C-2149 - William Head Road, widen, pave		82,062.24	
C-2150 - Happy Valley at Winter Road, alignment improvement		140,801.70	
C-2151 - Millstream Road, racetrack to Finlayson, reconstruct		555,809.78	
C-2153 - Highway 1 at Spencer Road, pave overlay		51,090.50	
C-2155 - West Coast Road, machine patch		43,903.09	
C-2157 - Gillespie Road at Roche Cove, remove rock		46,295.39	
C-2158 - West Coast Road, widening, ditching		56,094.71	
C-2159 - Highway 14, Kirby Bridge approaches		305,623.32	
C-2425 - Highway 14, Sooke Road, slide stabilization		42,000.00	
C-2427 - West Coast Road, seal coat		24,196.00	
C-2536 - Langford, Port Renfrew and Sooke areas, miscellaneous patch paving		407,943.85	
C-2537 - Highway 14 at Jacklin Road, intersection, pave		66,795.55	
C-2609 - Rocky Point Road, recap		140,648.26	2,170,683.14

ESQUIMALT-PORT RENFREW ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-2277 - Channel Bridge, widen		55,040.87	
B-2278 - Shawyer Bridge, replace substructure		22,448.00	
B-2280 - West Coast Highway 14, miscellaneous bridges, guardrail on approaches		15,219.25	92,708.12
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Humpback Road, Highway 1 to Highway 14		64,606.04	
-Meaford-Latoria, Kelly Connex		14,138.14	
-Minor road surveys		49,046.64	
-Sooke Road (4 lane passing)		40,677.84	
-Trans Canada Highway and Millstream		10,723.00	179,191.66
Highway Safety Branch:			
Project C-0204 - School Route Improvements, davit-mounted signs for Sangster School, Metchosin Road, Saanich			1,072.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Finlayson Arm Road in Lot 10, Plan 2057 Sec.74 and 75, Highland District		425.00	
-Sooke Road through part of Lot 2, Plan 11213, Esquimalt District		350.00	775.00
Traffic Branch:			
Project E-2303 - Route 14 at Otter Point Road/Murray Road, Sooke, signal and lighting installation		36,758.29	
E-2345 - Route 1 at Spencer Road, Langford, signal and lighting installation		31,919.00	68,677.29
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Finlayson Arm Road		880.00	
-Gillespie Road		125,450.00	
-Gravel pits		1.00	
-Highway 14, Kirby Creek Bridge approaches		8,000.00	
-Meaford Road-Latoria Road, Kelly crossroad		6,200.00	
-Meaford-Latoria Road		414,952.00	
-Millstream Road		1,600.00	
-Ocean Boulevard		85,000.00	
-Sooke Road		1.00	
-Trans Canada Highway at Millstream Road		2,446.51	
-West Coast Road		3,600.00	648,130.51
EMPLOYMENT DEVELOPMENT ACCOUNT			
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2305 - Kirby Creek Bridge, West Coast Highway 14			212,029.91
Total, Esquimalt-Port Renfrew Electoral District			$5,763,805.81

KAMLOOPS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			6,445,701.96
Snow removal			1,872,001.14
Bridge maintenance			305,737.97
Ferry maintenance and operation			
Little Fort Ferry		76,152.64	
McLure Ferry		58,059.86	134,212.50
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0123 - Minor Betterments, miscellaneous		390,878.30	
C-0145 - Minor Betterments, miscellaneous		63,124.99	
C-0814 - Agate Bay Road Squaam Bay, reconstruction and paving		88,770.66	
C-0815 - Kamloops District various roads, reconstruction and paving		315,382.62	
C-2050 - Highways 16 and 5, various sections, pavement repair (see also Prince George South)		51,664.70	
C-2058 - Murtle Lake Road, gravelling		13,514.00	
C-2060 - Messiter Station Road, gravelling		7,832.00	
C-2061 - Mai street, gravelling		5,089.00	
C-2062 - McBride miscellaneous roads, major ditching, surveys (see also Prince George South)		20,000.00	
C-2192 - Trans Canada Highway 1, Cherry Creek, widening		696,562.57	
C-2194 - Lac Le Jeune Road, gravel and pave		144,853.90	
C-2195 - Savona and Barriere area, miscellaneous road, construction		99,698.52	
C-2316 - Lemieux Creek Bridge, construct approaches		239,722.83	
C-2514 - Clearwater Valley Road, reconstruction		141,913.14	
D-1553 - Rest area upgrading		7,320.54	
N-0373 - Guardrail installation		39,177.40	
N-0434 - Guardrail installation		15,648.82	
W-0344 - Fencing Schedule 2 Highways		42,998.34	
W-0361 - Fencing Schedule 2 Highways		1,461.73	2,385,614.06
Construction Branch:			
Project C-0790 - Summit Drive Extension, Kamloops			2,173.99
Bridges and Ferry Landings:			
Day Labour			
Project B-2290 - Chu Chua Bridge, replace with box beams		109,227.45	
B-2525 - Lions Creek Bridge, prefab I beam bridge		16,822.15	126,049.60
Bridge Branch:			
Project B-1677 - Kamloops Bridge (North Thompson River),on Highway 5 to Brocklehurst		417,833.89	
B-1717 - Lemieux Creek Bridge, Little Fort-Cariboo Highway 24		568,770.32	986,604.21

KAMLOOPS ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals,			
-Region 3 District Boundary to Avola plus S. S.	224,485.33		
-Shuswap Road - East Kamloops	89,330.71	313,816.04	
S-0085 - Miscellaneous Drum Mix Paving,			
-Barriere Townsite, Agate Lake Road		695,313.19	
S-1688 - Highway 1, Thompson River Bridge to Afton Mines		3,468,661.26	
S-1732 - Highway 5, Heffley Creek to Barriere		714,643.93	5,192,434.42
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Barnhartvale Road in Kamloops		6,829.36	
-Deadman Creek Road mile 3.25 - Deadman Creek Indian Reserve to mile 8.24 - Sec.22 Tp.22, Range 22, K.D.Y.D.		2,315.47	
-Lac Le Jeune - 2775A		49,547.63	
-Little Fort-Lac Des Roches (see also Cariboo)		11,333.32	
-Minor road surveys		4,479.10	
-North Thompson Crossing, Kamloops, photo and mapping leading to location survey		63,293.14	
-Shuswap Road realignment in slide area opposite Monte Creek Junction		29,135.51	
-Trans Canada Highway 1 Cherry Creek to Cornwall Lodge		20,330.15	
-Trans Canada Highway from Valleyview to Campbell Creek		769.00	188,032.68
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Campbell Creek Road through L.S.10, Section 16, Township 19, Range 16 W6M, K.D.Y.D.			3,032.90
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Agate Bay Road		15,393.00	
-Barnhartvale Road 685		27,850.00	
-Birch road		1.00	
-Dunn Lake Road		81.00	
-Gravel pits		595.69	
-Halston Bridge approaches		99,606.08	
-Highway 5 at Knutsford		4,900.00	
-Kingston Avenue		415,964.37	
-Little Fort-Cariboo Highway 24, Little Fort to Phinetta Lake		4,152.00	
-Monte Creek Road		1.00	
-North Thompson Highway		1.00	
-Old North Thompson Highway		2,500.00	
-Summit Drive, Kamloops		200,692.60	
-Trans Canada Highway 1, Cherry Creek, upgrading		5,902.85	
-Trans Canada Highway-Valleyview-Campbell Creek		255.00	
-Westsyde Road		5,000.00	782,895.59

KAMLOOPS ELECTORAL DISTRICT - continued

	$	$	$
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-0916 - Highway 24, Little Fort-Phinetta Lake section, reconstruction		7,799,235.29	
C-1563 - Halston Bridge approaches		1,570,631.31	9,369,866.60
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1677 - Kamloops Bridge (North Thompson River), on Highway 5 to Brocklehurst			4,497,176.33
Paving Branch:			
Project S-1732 - Highway 5, Heffley Creek to Barriere			1,837,806.60
Total, Kamloops Electoral District			$34,129,340.55

KOOTENAY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,631,237.32
Snow removal			904,397.37
Bridge maintenance			136,646.58
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0135 - Minor Betterments, miscellaneous		131,771.18	
C-0136 - Minor Betterments, miscellaneous		156,800.00	
C-1780 - Highway 3, C.P.R. Hill, strengthen road base prior to paving		5,100.00	
C-1897 - Highway 3 and 95, Cranbrook east interchange, construct		267,000.00	
C-1898 - Cranbrook Arterial, landscape		299,660.38	
C-1899 - Cranbrook District Streets, flushcoating		87,450.00	
C-1902 - Corbin Road, railway crossing approaches, construct		76,070.00	
C-1903 - Highway 43, shouldering		181,000.00	
C-1904 - Fernie area roads, miscellaneous gravelling		62,440.00	
C-1905 - Jaffray area roads, miscellaneous gravelling and clearing		18,300.00	
C-1906 - Highway 43, Balmer Drive, left turn slot		30,315.00	
C-1907 - Fernie miscellaneous roads, inverted prime		74,930.00	
C-1908 - Kikomun-Newgate Road, reconstruction		105,000.00	
C-1909 - Sparwood weigh scales, site development and access		254,709.00	
C-1910 - Industrial Park, Elkford, construct left turn slot		47,560.00	

KOOTENAY ELECTORAL DISTRICT - continued

	$	$	$
Roads: (continued)			
Day Labour			
Project C-1911 - Jaffray area roads, inverted prime		70,291.00	
C-1912 - Fernie dedicated roads, construct		40,000.00	
C-1913 - Highway 3, Fernie west, construct and pave passing lane		64,685.00	
W-0353 - Fencing Schedule 2 Highways		1,846.40	1,966,927.96
Construction Branch:			
Project C-1864 - Highway 3 east of Sparwood, construction of a weigh scale station			188,251.94
Bridges and Ferry Landings:			
Day Labour			
Project B-2253 - Goatfell Bridge, major repairs		27,500.00	
B-2254 - Moyie Wards Bridge, major repairs		16,400.00	
B-2255 - West Fernie Bridge, reconstruction west pier cap		30,000.00	
B-2256 - Michel Old Town Bridge, major concrete repair		24,000.00	
B-2543 - Galvanizing bridge rails, (6 bridges)		14,100.00	
B-2544 - Elko Overpass, Jaffray Overpass and Lizard Creek Bridge, galvanizing bridge rails		8,300.00	120,300.00
Bridge Branch:			
Project B-1088 - North Fernie Bridge, Highway 3		10,587.01	
B-1261 - McPhee Bridge over St. Mary River, Highway 95A		2,995.11	
B-1306 - Elkford Spur Overhead and Michel Prairie Bridge, Elk Valley Road	1,634,027.96		
-Recoveries from Urban Transportation Assistance Program	21,360.00cr	1,612,667.96	
B-1307 - Sparwood Overhead and Michel Creek Bridge, Elk Valley Road	1,094,184.93		
-Recoveries from Urban Transportation Assistance Program	56,977.50cr	1,037,207.43	
B-2182 - Hosmer Bridge, Highway 3, sidewalk addition		92,258.75	2,755,716.26
Ferries:			
Project H-2365 - Harrop Ferry, refit and improvements			58,000.00
Paving Branch:			
Project S-1726 - Highway 3, Southern Trans Provincial, Fort Steele-Wardner		1,865,107.73	
S-1797 - Highway 95A, miscellaneous roads, Cranbrook area (see also Columbia River)		38,079.59	1,903,187.32
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Cranbrook North Interchange		38,508.04	
-Elk Valley Highway from Elk River to Cummings Street		90.00	
-Highway 3 Elko-Morrissey		2,124.26	
-Lazy Lake Road, Wasa, Cranbrook		25,413.85	
-Minor road surveys		7,436.08	

KOOTENAY ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services (continued)			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Morrissey Bridge over Elk River site plan		2,159.73	
-Wildlife reflector study (see also Nelson-Creston)		562.00	76,293.96
Highway Safety Branch:			
Project C-0205 - General Safety Works, installation of 13 wheelchair ramps, 1 in Cranbrook and 12 in Kimberley on arterial highways (see also Columbia River)			2,617.50
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-1. Alexander gravel pit in Parcel A Plan 9330 D.L.4588 subdivision Plan 2. Wheeler gravel pit in Parcel A Plan 11800 (3) in D.L. 4589		1,300.00	
-E. Bdy., S.L. 36 to W. Bdy. S.L. 27, D.L.4592, Kootenay District 6.8 km+- No.18 St. Marys Lake Road		18,458.98	
-Explanatory Plan of Part of S. 1/2 of D.L.7881 and Parcel A, D.L.8525, Kootenay District, Sparwood Municipality, Elk Valley Road 4		325.00	
-Plan of statutory right-of-way for Highway in part of Lot 10308 K.D. Coopman Road		6,117.51	
-Plan of subdivision of Lot 2, Plan 9330 D.L.4588, Kootenay District, Sparwood weigh scale site		1,500.00	
-Reference plan for gravel pit lease in part D.L. 30, K.D., Borden Road, Cranbrook		2,695.00	
-Reference plan of statutory right-of-way over Parcel A, Plan B 6958 D.L.5485 and remainder of D.L.5485 except Plan B 6958, 25011, 25081 and 31721, Lillooet District, drainage easement(see also Columbia River)		170.00	
-Referencing monument for corner of District Lot 7510, Kootenay District-Lazy Lake Road improvements		386.49	30,952.98
Traffic Branch:			
Project E-2180 - Elk Valley Road-Route 3 to Lower Elk Valley Road, Sparwood area, lighting installation		19,147.00	
E-2355 - Route 3, Sparwood weigh scale, Sparwood area, lighting installation		32,365.65	
E-2400 - Route 3/95 (Cranbrook Street) - 4th Street north to Victoria Avenue north, Cranbrook, lighting installation		10,963.00	62,475.65

KOOTENAY ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-23rd Street south 697		9,278.25	
-33rd Street		1,000.00	
-Betts Road 97		6,314.10	
-Corbin Road 36, Sparwood-Elk Crossing		7,648.00	
-Cranbrook North Interchange		28,589.55	
-Gravel pits		14,724.08	
-Joinson Road 318		2.00	
-Livesley Road 268		754.80	
-Savarie subdivision		550,378.91	
-Wardner-Kikomun Road 39		10,800.00	
-Wycliffe Perry Creek Road 67		1.00	629,490.69
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1312 - Sparwood-Cummings Creek, Elk Valley Road		3,049,653.95	
-Recoveries from Urban Transportation Assistance Program		653,162.50cr	2,396,491.45
Paving Branch:			
Project S-1797 - Highway 95A, miscellaneous roads, Cranbrook area (see also Columbia River)			63,347.31
Total, Kootenay Electoral District			$13,926,334.29

LANGLEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			764,518.41
Snow removal			60,936.13
Bridge maintenance			21,756.03
Ferry maintenance and operation- Albion-Fort Langley Ferry (see also Dewdney)			931,706.07
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		27,939.91	
C-2104 - Glover Road, reconstruct		290,000.00	
C-2376 - Highway 13, 1 km south of Highway 1, install concrete box culvert		47,299.21	
C-2482 - Highway 13, Fraser Highway to U.S. Border, pave shoulder		78,382.80	
W-0793 - Fencing Schedule 2 Highways		22,500.00	466,121.92

LANGLEY ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Aldergrove to U.S. Border		1,404.75	
-Carvolth from Highway 401 to Fraser Highway		1,043.00	
-Highway 10-Cloverdale east truck lane		2,468.75	
-Highway 1A from 200th Street to 202nd Street		8,490.84	
-Minor road surveys		4,291.75	
-Miscellaneous-Langley from Fraser Highway at 208th Street to Glover Road		73.52	
-Plan, profile and estimate for the reconstruction of Glover Road between Spring Brook Road and 88th Avenue		22,982.51	40,755.12
Highway Safety Branch:			
Project C-0204 - School Route Improvements, 90m ditch treatment, Highway 1A, 258 to 270 Street		6,359.72	
C-0205 - General Safety Works, street end closure, 232nd Street at 70th Avenue, Langley		6,712.00	13,071.72
Traffic Branch:			
Project E-1672 - Route 1A at 272nd Street (Jackman Road), Aldergrove, signal replacement and lighting installation		1,365.00	
E-1681 - 200th Street at 72nd Avenue, Langley, signal and lighting installation		37,992.61	39,357.61
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Glover Road			1,868.00
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0689 - 256B, 200th Street (Carvolth Road), City of Langley			19,936.00
Total, Langley Electoral District			$2,360,027.01

MACKENZIE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,948,415.64
Snow removal			219,048.71
Bridge maintenance			133,652.19
Ferry maintenance and operation-			
Comox-Powell River Ferry (see also Comox)		2,433,707.76	
Texada Island Ferry		1,930,302.47	4,364,010.23

MACKENZIE ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0118 - Minor Betterments, miscellaneous		132,594.19	
C-0146 - Minor Betterments, miscellaneous		34,463.09	
C-1434 - Minor Betterments, miscellaneous		26,000.00	
C-2087 - Salloomt River Road, upgrade		39,900.35	
C-2095 - Highway 101 and Lower Intersection, realignment		175,000.00	
C-2096 - Malaspina Road, pave and shoulder		131,600.00	
C-2097 - Henderson Road, reconstruct		123,000.00	
C-2098 - Port Mellon Highway(Route 101), shoulder widening		29,992.10	
C-2099 - Craig Road, reconstruct		74,982.10	
C-2100 - Egmont Road, reconstruct		2,000.00	
C-2101 - Gillies Bay subdivision, Texada Island, pave		50,000.00	
C-2102 - Centennial Drive, pave		43,400.00	
C-2473 - Highway 101, Saltery Bay to Powell River, major patching		8,773.00	
C-2474 - Highway 101, Secret Cove to Earls Cove, major patching		100,000.00	
C-2475 - Powell River area, miscellaneous roads, ditching and base repair		49,397.35	
C-2476 - Gibsons area, miscellaneous roads, ditching and base repair		50,001.55	
C-2477 - Madeira Park area, miscellaneous roads, ditching and base repair		28,900.80	
C-2478 - Gibsons area, miscellaneous roads, brushing		18,990.30	
C-2479 - Powell River area, miscellaneous roads, brushing		23,036.40	
C-2480 - Highway 101, Madeira Park area, shoulder buildup and repairs		25,000.00	
N-0369 - Guardrail installation		44,155.98	1,211,187.21
Bridges and Ferry Landings:			
Day Labour			
Project B-2405 - Port Mellon Bridge, reconstruction			126,943.21
Ferries:			
Project H-1125 - Princess of Vancouver, conversion to roll-on, roll-off vehicle ferry (see also Comox)			10,288.68
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Extension of Highway 20 west of Bella Coola		2,178.60	
-Highway 101 from Langdale Ferry to Highway 101 at Park Road Sechelt Bypass-Airport to Trout Lake		987.13	
-Highway 101 from Secret Cove to Madeira Park		230.00	
-Lower Road - Roberts Creek		782.00	4,177.73

MACKENZIE ELECTORAL DISTRICT - continued

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Highway Safety Branch:			
Project C-0204 - School Route Improvements, Roberts Creek Road, widen shoulders for safer pedestrian travel to Roberts Creek Elementary School			33,125.33
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Francis Peninsula Road in Lot 7, Plan 4276, D.L.1390, Gp.1, N.W.D.		1,400.00	
-Lee Road through Lot B, R. P.2354, Lot A R. P.1026, Lot 3, R.P.3505 all in District Lot 2011, Group 1, N.W.D.		5,656.63	
-Pell Road through Part of D.L.1319, 3312 and 3554 Group 1, N.W.D.		1,558.59	
-Through part of District Lot 692, Group 1, N.W.D., North Road		3,687.40	
-Through part of Parcel B. Ref. Plan 281 D.L.3970, Gp.1, N.W.D. Sunshine Coast, Highway 101		1,400.71	
-W. Bdy. L.3894 to N. Bdy. L.3919, N.W.D. Malaspina Road		11,198.86	24,902.19
Traffic Branch:			
Project E-1747 - Route 101 at Shaw Road, Gibsons, signal and lighting installation			13,527.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Craig Road		1,996.42	
-Highway 101 and Lower Road		14,418.16	
-Langdale Ferry Terminal		4,500.00	
-Lee Road		1,483.23	
-Olsen Road 892		1.00	
-Salloomt River Road 840		4,105.44	26,504.25
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1174 - 143B, Duncan Street, District of Powell River			24,604.00
Total, Mackenzie Electoral District			$8,140,386.37

MAILLARDVILLE-COQUITLAM ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			183,913.59
Snow removal			14,294.42
Bridge maintenance			15,948.17
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		71,888.24	
C-0122 - Minor Betterments, miscellaneous		4,517.56	76,405.80
Construction Branch:			
Project C-1841 - Lougheed Highway 7, Cape Horn - Colony Farm			265,744.87
Paving Branch:			
Project S-1754 - Highway 1, Trans Canada sections, Capilano Bridge to east of Port Mann Bridge(see also Burnaby-Edmonds and North Vancouver-Seymour)			483,836.77
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101 -Mary Hill Bypass			74,483.84
Traffic Branch:			
Project E-2430 - Route 7, Cape Horn Interchange to Colony Farm Road, Coquitlam, lighting installation			23,220.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113 -Lougheed Highway, North Road to Cape Horn Interchange			1,500.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1841 - Lougheed Highway 7, Cape Horn - Colony Farm		1,159,905.04	
- Gravelling and paving		292,106.75	1,452,011.79
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1827 - Cape Horn Flyover, C.P.R. Overpass, widening, Lougheed Highway 7			436,592.85
Paving Branch:			
Project S-1754 - Highway 1, Trans Canada sections, Capilano Bridge to east of Port Mann Bridge(see also Burnaby-Edmonds and North Vancouver-Seymour)			26,975.05
Total, Maillardville-Coquitlam Electoral District			$3,054,927.15

NANAIMO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,235,804.21
Snow removal			162,957.40
Bridge maintenance			53,391.27
Ferry maintenance and operation-			
Gabriola Island Ferry		2,969,623.87	
Newcastle Island Ferry subsidy		20,060.00	2,989,683.87
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		13,000.00	
C-0152 - Minor Betterments, miscellaneous		134,860.51	
C-0154 - Minor Betterments, miscellaneous		3,876.59	
C-1536 - Berry Point Road, Gabriola Island, reconstruct and pave		70,596.79	
C-2141 - Quennel Road, reconstruct and pave		113,999.39	
C-2144 - Highway 19, Northfield Road, pedestrian underpass		400,000.00	
C-2330 - North Road, Gabriola Island, reconstruct and pave		41,403.00	
C-2538 - Cassidy, Duncan, and Lake Cowichan areas, miscellaneous patch paving (See also Cowichan-Malahat)		285,363.27	
C-2541 - Highway 19, Parksville-Qualicum (including Lantzville, Qualicum Bay, Nanoose Bay, and French Creek areas), miscellaneous paving (see also Comox)		71,942.51	
C-2570 - Shell Beach Road, Cassidy, pave		74,975.91	
D-0012 - Rest area upgrading		50,000.00	
N-0395 - Guardrail installation		12,820.00	
W-0365 - Fencing Schedule 2 Highways		6,980.68	1,278,818.65
Construction Branch:			
Project C-2901 - Highway 19, Lantzville to Craig's Crossing, reconstruction			148,789.40
Roadside Development and Landscape Branch:			
Project D-1537 - Nanoose Bay, new rest area			1,932.00
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Cypress Street to B.C.Ferry property		5,400.19	
-George Pearson Bridge to Departure Bay Road, mapping for curb and gutter		48,374.93	
-Highway 19, Bowen Road, Norwell and Rock City Road		72,087.92	
-Highway 19, Nanaimo Bypass		30,708.89	
-Island Highway from Chemainus to Ladysmith		10,396.97	
-Island Highway from Ladysmith to Carmichael Road		10,824.10	
-Minor road surveys		11,731.52	
-Nicol Street four laning		27,111.26	

NANAIMO ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch (continued):			
Surveys Generally - Project L-0101			
-Terminal/Wallace couplet south end Nicol Street to George Pearson Bridge		31,803.55	358,439.33
Highway Safety Branch:			
Project C-0204 - School Route Improvements, Gabriola Island, construct elementary school walkway on North Road, east of school			7,911.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-1. Pieces Road in Sec.11, Rge.5, Cranberry District 2. Chemainus Road in D.L.31, Oyster District 3. Biggs Road in D.L.21, Wellington District		4,540.40	
-1. Rugg Road in part Sec.15R 2 and 3, Cedar District 2. Chinook Road in part Sec.16R 3, Cedar District		2,033.05	
-Survey of highway right-of-way Trans Canada Highway, Ladysmith-Carmichael Road through Lot 2, Plan 23935, District Lot 65, Oyster District		212.60	
-Through Lot 1, Section 14, Range 6, Cranberry District, Plan 9244, (Kipp Road)		350.00	7,136.05
Traffic Branch:			
Project E-0560 - Route 19 at Rutherford Road, Nanaimo, signal revision		6,125.00	
E-2414 - Route 19 near Northfield Road, Nanaimo, pedestrian underpass lighting installation		4,492.00	10,617.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Bramley Road		705.00	
-Carmichael Road		1.00	
-Ladysmith - Carmichael		42,176.00	
-Nanaimo Ferry Terminal		648.00	
-Trans Canada Highway, Westdowne Road - Ladysmith		247,979.46	291,509.46
Total, Nanaimo Electoral District			$8,447,989.64

NELSON-CRESTON ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			7,115,636.36
Snow removal			3,162,915.87
Bridge maintenance			548,088.02
Ferry maintenance and operation-			
Glade Ferry		140,051.91	
Harrop Ferry		228,040.18	
Kootenay Lake Ferry		1,830,992.88	
Sunshine Bay Dry Dock		8,095.74	2,207,180.71

NELSON-CRESTON ELECTORAL DISTRICT - continued

		$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS				
Roads:				
Day Labour				
Project	C-0131 - Minor Betterments, miscellaneous		207,814.19	
	C-0134 - Minor Betterments, miscellaneous		187,421.19	
	C-0139 - Minor Betterments, miscellaneous		173,683.37	
	C-1450 - Minor Betterments, miscellaneous		9,024.57	
	C-1866 - Highway 3A, Nelson-Balfour, reconstruction		126,874.20	
	C-1867 - Nelson area roads, widen and realign		157,155.92	
	C-1868 - Winlaw area roads, widen and realign		79,329.39	
	C-1869 - Salmo area roads, widen and realign		45,698.80	
	C-1870 - Nelson area roads, sealcoat		39,877.90	
	C-1871 - Highway 6, Claybrick Slide, repair slide		41,533.86	
	C-1872 - Highway 6, Apex Hill, drainage		18,453.59	
	C-1873 - Blewett and Granite Roads, ditch and widen		4,150.00	
	C-1889 - Highway 31, Mirror Lake, realignment		100,000.00	
	C-1890 - Nakusp Hot Springs Road, reconstruction		197,512.00	
	C-1891 - Highway 6, Nakusp South, 3rd lane construction		148,850.00	
	C-1892 - Highway 31A, Three Forks, multiplate		25,000.00	
	C-1893 - Howser Hill, reconstruction		55,000.00	
	C-1894 - Highway 6, New Denver North, reconstruction		169,288.00	
	C-1930 - Creston Area "A" miscellaneous roads, general improvements		79,998.03	
	C-1931 - Creston Area "B" miscellaneous roads, general improvements		19,995.52	
	C-1932 - Creston-Erickson road, gravel and sealcoat		49,991.65	
	C-1933 - Abbey Road, gravel and sealcoat		55,000.00	
	C-1934 - Lakeview Road,construction		219,385.94	
	C-1935 - Walkers Landing Road, construction		95,000.00	
	C-1936 - Robson Road, construction		24,999.43	
	C-1937 - Highway 3, Kootenay Pass, rock cut widening		39,999.07	
	C-1938 - Creston miscellaneous roads, construction dedicated rights-of-way		19,985.69	
	C-2505 - Annabelle Road, drainage improvements		9,224.87	
	C-2506 - Glade Area roads (Antler and Moraine Roads), widen and realign		15,193.75	
	C-2507 - Erie Creek bridge approaches		14,475.98	
	C-2508 - Paradise Valley Road, widen and realign		13,676.90	
	C-2509 - Kurwen Road, construct extension		19,961.05	
	D-1554 - Rest area upgrading		70,000.00	
	N-0381 - Guardrail installation		38,949.30	
	N-0384 - Guardrail installation		53,210.00	
	N-0389 - Guardrail installation		42,898.63	2,668,613.79

NELSON-CRESTON ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-1498 - Airy Creek Bridge, construction		25,679.36	
B-1758 - Maryland gravel pit access bridge, log, prepare and prefab bridge members		16,000.00	
B-2241 - Wolverton Bridge, reconstruction log stringer bridge		14,039.87	
B-2242 - Mulvey Bridge, construct new bridge		11,489.40	
B-2248 - Kyawats Bridge, rebuild		32,868.00	
B-2249 - Carpenter Creek Bridge (Sandon), excavate and construct		20,310.00	
B-2250 - Carpenter Creek Bridge, rip rap centre pier		8,000.00	
B-2252 - Meadow Creek Bridge, box beam construction		81,650.88	
B-2258 - Corn Creek Bridge, major repair		11,829.60	
B-2259 - Kidd Creek Bridge, repair deck		1,961.12	
B-2382 - Tri Pac Bridge,replace deck		19,716.00	
B-2547 - Sanca Creek Bridge and Walker Bridge, galvanizing bridge rails		6,721.31	
B-2608 - Tenderfoot Creek Bridge, replacement		1,991.87	252,257.41
Bridge Branch:			
Project B-1736 - Slocan Park Bridge, Slocan Valley West Road, Passmore Bridge, Passmore Upper Road		162,171.65	
B-1823 - Creston-Porthill Bridge, Creston-Rykert's Highway		531,392.70	693,564.35
Ferry Landings:			
Project B-1390 - Balfour Ferry Terminal, marine structure replacement			2,791.00
Ferries:			
Project H-2412 - M. V. Anscomb, removal of existing asbestos insulation and replace with asbestos-free insulation			65,720.00
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals,			
-East of Creston Junction, North to Sanca and miscellaneous roads	76,062.44		
-Hot Spring Road, Nakusp, double graded seal	135,320.43		
-Salmo Bypass,Junction 6 eastward	286,061.44	497,444.31	
S-1824 - Highways 3, 3A, 3B and 6 in the Nelson area, miscellaneous paving (see also Rossland-Trail)		802,063.50	1,299,507.81
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-6 Vernon Slocan Highway		22,008.00	
-Creston Bypass revisions		7,027.84	
-Granite Road (Old Highway 3A) in Nelson		7,837.53	
-Highway 31 - Lardeau Bluffs		10,817.03	
-Highway 3A, Shoreacres intersection west of Nelson		913.00	
-Minor road surveys		130,423.51	

NELSON-CRESTON ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch: (continued)			
Surveys Generally - Project L-0101			
-Survey alternate alignment for Enterprise Creek Crossing		1,867.68	
-Wildlife reflector study (see also Kootenay)		562.00	181,456.59
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, Highway 3A, Wynndel, Lakeview cut-off, concrete shoulder barrier		13,999.00	
C-0204 - School Route Improvements,			
-Highway 3A, shouldering (stage 2) from Nelson to mile six on North Shore	24,970.00		
-Shouldering Wynndel area from Junction of Highway 3 and 3A north to Wynndel	14,972.00		
-Tarrys School, crosswalk installation including pole relocation to improve visibility	3,020.00		
-Widen existing roadway in vicinity of Canyon Street	29,985.00	72,947.00	
C-0205 - General Safety Works, widen narrow shoulder on Creston arterial 718R for pedestrian use		19,999.00	106,945.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Arrow Creek West Road 17 Plan of Statutory right-of-way for Highway through part of remainder Lot 30, Plan 1167, S.L.5, D.L.4595, K.D.		644.92	
-Highway 6 through sub lot 36 of lot 123 K.D.		1,000.00	
-Krestova Road R/W through Lot 7361, Plan 773, Kootenay District		1,000.00	
-Plan of statutory right-of-way for Highway through Parcel B, Plan 2807, S.L.10 D.L.1239, Kootenay District, Nelson Nelway Highway 6		850.00	
-Plan of statutory right-of-way through Block L, Plan 1786, Arrow Creek Area Lot plans R54 and R357		336.00	
-Plan of subdivision of Part of Lot 1 Plan 6274 and part of Block 44 Lot 9427 K.D. Pakoski Gravel Pit		556.55	
-Southern Trans Provincial Highway 3 through Part of Lot 9554 K.D.		3,469.82	
-Southern Trans Provincial Highway explanatory plans of surplus lands as shown on LTO Plan 14948		300.00	
-Southern Trans Provincial Highway, Creston Bypass through Parcel E (DD14637) Block 19, D.L.891 K.D. Plan 698		1,100.00	
-Sproule Creek Road right-of-way through part of D.L.5574, Kootenay District		700.00	
-Through parts of Lots 7453, 4398 and 4216, Group 1, Kootenay District Southern Trans Provincial Highway 3A		11,233.37	21,190.66

NELSON-CRESTON ELECTORAL DISTRICT - continued

	$	$	$
Traffic Branch:			
Project E-1114 - Route 3A at Vernon Street /Ward Street, Nelson, signal and lighting revision			17,450.51
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Abbey Road 404		1,500.00	
-Annable Street 12		673.41	
-Buterman Road 37		113.50	
-Corn Creek Road 62		2,755.00	
-Crawford Creek Bridge approaches, Highway 3A		4,990.17	
-Creston bypass		193,923.78	
-Creston-Lister Road 70		3,063.10	
-Ferner Road 111		1,751.00	
-Filipoff Road 149		537.60	
-Galena Farm Road 110		91.00	
-Johnstone Road		2.00	
-Johnstone Road 233		3.00	
-Junction Highway 3 and 21		1,781.60	
-Juniper Road 9		2,025.00	
-Kaslo Arterial		2,846.64	
-Maychuk Road 241		5,000.00	
-Millar Road 198		575.00	
-Nelson-Balfour Highway 3A		78,050.00	
-Passmore Bridge Site		2,560.40	
-Passmore-Vallican, Little Slocan River Crossing		22,000.00	
-Peterman Road 263		300.00	
-Slocan Park Bridge		1,966.87	
-Slocan West Road 256		17,067.27	
-Smith Road 315		453.00	
-South Fork - Salmo Highway		45,619.50	
-Stocks-Jackson Road		48,306.40	
-Sundry expenses		372.30	
-Upper Passmore Road 233		1,664.00	
-Vernon-Slocan Highway 16		751.00	
-Walker's Landing Road 357		21,904.35	462,646.89
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0925 - Town of Creston			21,000.00
Secondary Highway Construction and Improvements			
Project V-0706 - 275B, Creston-Erickson Road, 17th Avenue and 16th Avenue, Town of Creston			3,607.03
EMPLOYMENT DEVELOPMENT ACCOUNT			
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1736 - Slocan Park Bridge, Slocan Valley West Road, Passmore Bridge, Passmore Upper Road			996,698.06
Ferry Landings:			
Project B-2436 - Balfour and Kootenay Bay Ferry Terminals, new steel loading ramps			334,123.05
Paving Branch:			
Project S-1824 - Highway 3, 3A, 3B, and 6 in the Nelson area, miscellaneous paving (see also Rossland-Trail)			1,298,328.58
Total, Nelson-Creston Electoral District			$20,459,723.69

NEW WESTMINSTER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			25,451.37
Snow removal			2,186.68
Bridge maintenance			14,049.74
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		2,819.25	
C-0122 - Minor Betterments, miscellaneous		12,912.00	
C-2481 - Westminster Highway, 8 Road east, levelling and paving, course and shoulder gravel (see also Richmond)		9,517.18	25,248.43
Construction Branch:			
Project C-1304 - Fraser River Crossing (Annacis Island), vibro replacement compaction of foundation of the Annacis channel moveable bridge, south approach and abutment area		26,221.99	
C-1775 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, ditching and grading Sta.181+30-Sta.192.00		201,016.68	
C-2342 - Fraser River Crossing (Annacis Island), sewer line relocation		347,132.06	
C-2359 - Fraser River Crossing (Annacis Island), Queensborough, B.C.H. relocation		1,165,403.52	
C-2380 - Queensborough Bridge, Marine Way to Sixth Avenue and Fifth Avenue intersection		1,269.04	1,741,043.29
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0894 - Fraser River Crossing (Annacis Island), moveable bridge		75,822.31	
B-1420 - Pattullo Bridge, south approach falsework for bearing replacement. Contract 1		188,924.33	
B-1666 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, pile driving and load tests (see also Delta and Richmond)		202,412.31	
B-2450 - Fraser River Crossing (Annacis Island), Annacis Channel East Bridge, Annacis Highway, pile driving and load test		49,549.33	
B-2599 - Fraser River Crossing (Annacis Island), Annacis Channel East Bridge		11,368.43	
B-2444 - Fraser River Crossing (Annacis Island), insurance premiums (see also Delta)		133,123.50	661,200.21

NEW WESTMINSTER ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0038 -Fraser River Crossing (Annacis Island), geotechnical investigations (see also Delta and Richmond)			132,101.13
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101 -Marine Way - Boundary Road to Byrne		10,555.84	
L-0558 - Fraser River Crossing (Annacis Island), -Annacis Crossing of Fraser River	790,065.71		
-Belgrave Way to Carter (Annacis Truck Route)	189,489.78	979,555.49	990,111.33
Planning Branch:			
Project O-1188 - Fraser River Crossing (Annacis Island),project study and preliminary design planning (see also Delta)			33,892.30
Traffic Branch:			
Project E-1769 - Fraser River Crossing (Annacis Island),Annacis Island Bridge, lighting installation (see also Surrey)			9,172.76
Property Services Branch:			
Rights-of-way and Property Purchases Project P-0113 -Sundry expenses			5,939.39
Municipal Programs Branch:			
Amalgamation Grants Project O-0994 - Village of Belcarra			73,859.69
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1121 - Marine Way, Byrne Road to north end of Queensborough Bridge, grade construction (see also Burnaby-Edmonds)	296,460.52		
-wick drain installation	8,664.30		
-Recoveries from Urban Transportation Assistance Program	28,000.00cr.	277,124.82	
C-1593 - Fraser River Crossing (Annacis Island) Highway 99 to Queensborough Bridge, pier protection works and dredging (see also Delta)		1,669,710.65	
C-2380 - Queensborough Bridge, Marine Way to Sixth Avenue and Fifth Avenue intersection		47,071.06	
C-2410 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Lulu Island, dredging contract (see also Delta and Richmond)		10,153.92	
C-2413 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Queensborough Loop Road, preliminary grading		255,357.98	

NEW WESTMINSTER ELECTORAL DISTRICT - continued

	$	$	$
Roads (continued):			
Construction Branch:			
Project C-2416 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, soil densification (vibro compaction)		348,762.08	2,608,180.51
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0894 - Fraser River Crossing (Annacis Island), movable bridge		41,797.13	
B-0895 - Fraser River Crossing (Annacis Island), main span (see also Delta)		3,103,424.19	
B-1404 - Fraser River Crossing (Annacis Island), design and construction of miscellaneous minor structures (see also Delta)		26,357.93	3,171,579.25
Total, New Westminster Electoral District			$9,494,016.08

NORTH ISLAND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,818,069.14
Snow removal			409,391.24
Bridge maintenance			190,543.91
Ferry maintenance and operation -			
Alert Bay Ferry		1,679,597.49	
Cortes Island Ferry		1,009,709.18	
Quadra Island Ferry		1,932,818.78	4,622,125.45
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		1,773.00	
C-0155 - Minor Betterments, miscellaneous		148,328.83	
C-2166 - Whaletown Road, rock blasting and upgrading corners		29,149.50	
C-2167 - Quadra Island, various roads, sealcoat		5,220.00	
C-2170 - Gold River Highway 28, major patching		11,637.00	
C-2171 - Campbell River, various roads, upgrading		49,969.00	
C-2173 - Quadra Island - West Road, realign corners		21,111.19	
C-2174 - Malcolm Island Road, bridge replacement		12,469.85	
C-2175 - Sayward-Eve River rest area, pave		9,997.00	
C-2177 - Woss area-Zeballos Road, new log culvert, fill low area		42,106.82	
C-2178 - Highway 19, Port Hardy area, level		95,645.03	
C-2435 - Buttle Narrows Bridge, construction of approaches		125,000.00	
C-2539 - Campbell River and Courtenay areas, miscellaneous patch paving (see also Comox)		29,801.47	

NORTH ISLAND ELECTORAL DISTRICT - continued

	$	$	$
Roads: (continued)			
Day Labour			
Project C-2577 - Douglas, Evergreen and Lynn Roads, Campbell River area, paving		36,000.00	
C-2578 - Cortes Island, gravelling		13,993.20	
C-2579 - Quadra Island, rock blasting		20,586.00	
C-2580 - Big Tree Creek rest area, Sayward, paving		19,926.50	
C-2581 - Island Highway 19, Woss, drainage		9,818.25	
C-2582 - Alert Bay area, Sointula, paving		39,996.00	
C-2583 - Port Alice Road, Port Hardy, construction and paving		25,152.33	
C-2611 - Quadra Island, miscellaneous gravelling		9,873.00	
C-2612 - Port Hardy area, miscellaneous gravelling		15,725.75	
C-2613 - Campbell River area, miscellaneous gravelling		39,413.00	
C-2614 - Cortes Island area, miscellaneous gravelling		9,892.80	822,585.32
Bridges and Ferry Landings:			
Day Labour			
Project B-2284 - Sachts Bridge, major repairs		86,892.56	
B-2287 - 3 Minor Bridges, Western Mines Road, strengthen		103,100.00	189,992.56
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Sayward-Eve River Bridge area, Highway 19			194,473.63
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Campbell River Foreshore Road		16,997.17	
-Coal Harbour access off Highway 19 near Port Hardy, Lamonte Bridge site plan		761.80	
-Gold River-Tahsis, traverse existing road between Upana Summit and Tlupana Creek		1,766.42	
-Highway 19 (Port McNeill-Port Hardy) Keogh Bridge site plan		30,414.98	
-Highway 28, Buttle Lake, site plan at Buttle Narrows		9,504.09	
-Island Highway north of Campbell River		43,414.94	
-Island-Willow Point, curb and gutter		33,773.67	
-Minor road surveys		18,103.02	
-Port Hardy curb and gutter		36,806.00	
-Sachts Bridge-Sayward, Courtenay		555.46	
-Willow Point - Campbell River		4,152.76	196,250.29
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Island Highway statutory right-of-way plan over part of the bed of Discovery Passage		900.00	
-Through part of Sections 20 and 21, Township 2, Rupert District, Island Highway-Cluxewe River Crossing		1,461.05	2,361.05
Traffic Branch:			
Project E-2406 - Route 19 at Campbell Way, Port McNeill, lighting installation			9,541.00

NORTH ISLAND ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-April Point Road 930		1.00	
-Huck Road 120		849.70	
-Island Highway 19		104,106.17	
-Robertson Road 46		1.00	
-West Road - Quadra Island		1,001.00	105,958.87
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-4550 - Nimpkish-Zeballos-Fair Harbour-Gold River Road		71,488.95	
C-4551 - Head Bay Forest Road, Gold River to Tahsis		350,653.73	422,142.68
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2420 - Buttle Narrows Bridge, Highway 28			134,280.01
Total, North Island Electoral District			$10,117,715.15

NORTH PEACE RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,909,129.20
Snow removal			1,603,135.00
Bridge maintenance			297,140.30
Ferry maintenance and operation-Fort Nelson Hover Ferry			254,077.81
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0143 - Minor Betterments,			
-Miscellaneous	286,299.05		
-Montney, slide repairs	68,649.00		
-Road 190 realignment, Hudson Hope	54,200.35	407,148.40	
C-1865 - Highway 97, Fort St.John-100th Street to 88th Street, drainage and ditching		1,743,278.58	
C-1959 - Bulck Road connection, construct		399,996.02	
C-1960 - Highway 97, Baldonnel intersection, construct		300,000.00	
C-1961 - Highway 97, Alaska Highway, pavement preparation		370,728.52	
C-1962 - Road 107, Baldonnel, regravelling		34,999.80	
C-1964 - Road 140, Mile 59 Road, regravelling		19,999.69	
C-1965 - Road 242, Airport east, regravelling		19,999.41	
C-1966 - Road 253, N. S. Road through Baldonnel, regravelling		14,999.29	

NORTH PEACE RIVER ELECTORAL DISTRICT - Continued

	$	$	$
Roads: (continued)			
Day Labour			
C-1967 - Area "A" Fort St.John miscellaneous roads,regravelling		118,819.97	
C-1968 - Road 119,Tea Creek Crossing reconstruct		226,995.36	
C-1969 - Road 121, regravelling		53,411.87	
C-1970 - Road 114, regravelling		49,999.55	
C-1971 - Road 116, Lower Cache, regravelling		34,849.08	
C-1972 - Road 126, Lower Cache, regravelling		60,578.25	
C-1973 - Area "B" Montney miscellaneous roads, regravelling		150,894.51	
C-1974 - Road 151, Beatton River Road, regravelling		99,999.19	
C-1975 - Road 137, Milligan Creek Road, regravelling		98,496.24	
C-1976 - Farrell Creek Roads, regravelling		74,999.09	
C-1977 - Upper Cache Roads, regravelling		24,999.22	
C-1978 - Road 184, Siphon Creek Road, regravelling		79,999.83	
C-1979 - Road 211, North from Goodlow, regravelling		24,998.93	
C-1980 - Road 111, South from Goodlow, regravelling		11,999.34	
C-1981 - Road 108, Flatrock area, regravelling		49,999.55	
C-1982 - Area "E" Clayhurst miscellaneous roads, regravelling		27,839.22	
C-1983 - Fort St.John miscellaneous roads, general improvements		109,650.13	
C-1984 - Fort St.John miscellaneous farm access roads		45,340.49	
C-1985 - Liard Highway, Fort Nelson River Bridge approaches and miscellaneous sections, grading and gravelling		1,799,113.92	
C-2390 - Swanson Lumber Road, reconstruct and pave		212,716.34	
C-2522 - Nolan Pit, stockpiling gravel		29,496.68	
C-2530 - Moffat Quarry, blasting and hauling rip rap		109,771.90	
C-2531 - Mile 95 Road, blasting and removal of rock cut		66,466.44	
N-0432 - Guardrail installation		50,014.50	
W-0359 - Fencing Schedule 2 Highways		29,709.00	6,950,308.31
Construction Branch:			
Project C-4484 - Liard Highway,construction north of Fort Nelson River			2,242.05
Bridges and Ferry Landings:			
Day Labour			
Project B-2267 - Cypress Creek Bridge, construct new bridge		62,447.59	
B-2268 - Sundry minor bridges, pave decks		44,860.28	
B-2269 - Hudson's Hope Bridge,major repairs		26,963.14	134,271.01
Paving Branch:			
Project S-1750 - Alaska Highway 97,North Kiskatinaw Northward to Road 269, Asphalt surfacing(see also South Peace River)			343,552.77

NORTH PEACE RIVER ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Fort Nelson-Fort Simpson Highway from Alaska Highway to N.W.T. Boundary		31,214.20	
-Fort St. John, Alaska Highway, 88th Street to Mackenzie Avenue		6,993.00	
-Highway 29, Halfway River to Cache Creek		90,694.89	
-Highway 29, Hudson Hope to Farrell Creek		5,028.00	
-Minor road surveys		8,199.89	142,129.98
Legal Surveys Office:			
Legal Surveys - Project L-0099:			
-Alaska Highway Prophet River to S.Bdy., Lot 1703 P.R.D.		9,305.60	
-Alaska Highway improvements, S. Bdy., L.2247, to mile post 125, Peace River District		12,810.97	
-Alaska Highway right-of-way mile post 335 to 343, Kledo Creek west		2,483.56	
-Alaska Highway, Peterson Canyon section mile 442 to 451		9,087.37	
-Liard Highway - Stanolind Creek to 1.4 km south of Fort Nelson River		2,444.88	
-Referencing monuments, Road 157		707.40	36,839.78
Traffic Branch:			
Project E-2289 - Route 97 at Airport access (Baldonnel Intersection) to 108th Street, Fort St.John, lighting installations at various intersections			72,525.74
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Gravel pits		867.00	
-Halfway River Road		7,939.21	
-Road 101		380.00	
-Road 117		2,077.00	
-Road 187		2,429.85	
-Tea Creek Road 119		4,825.00	18,518.06
EMPLOYMENT DEVELOPMENT ACCOUNT			
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2300 - Fort Nelson River Bridge, Fort Nelson - Fort Simpson Highway, substructure			3,261,683.94
Paving Branch:			
Project S-1750 - Alaska Highway 97, North Kiskatinaw northward to Road 269, asphalt surfacing (see also South Peace River)			1,958,270.83
Total, North Peace River Electoral District			$18,983,824.78

NORTH VANCOUVER-CAPILANO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			283,079.71
Snow removal			32,685.94
Bridge maintenance			435,427.03
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0117 - Minor Betterments, miscellaneous		33,312.47	
W-2238 - Fencing Schedule 2 Highways		31,136.70	64,449.17
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1172 - Lion's Gate Bridge, major repairs to north cable bent			38,252.67
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Garibaldi Access, Vancouver to Whistler Mountain alternates		5,256.89	
-Upper levels control line		9,252.78	14,509.67
Traffic Branch:			
Project E-1664 - Route 1 and Capilano Road interchange(south intersection), North Vancouver, signal installation and lighting revision			23,344.37
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113 -Lion's Gate Bridge			39,250.00
Total, North Vancouver-Capilano Electoral District			$910,998.56

NORTH VANCOUVER-SEYMOUR ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			563,742.23
Snow removal			70,041.30
Bridge maintenance			102,640.30
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0117 - Minor Betterments, miscellaneous		10,091.33	
C-0122 - Minor Betterments, miscellaneous		12,919.00	23,010.33
Construction Branch:			
Project C-1725 - Fern Street to Mount Seymour Parkway, construction			338,591.95

NORTH VANCOUVER-SEYMOUR ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1714 - Seymour River Bridge, Mount Seymour Parkway			184,256.23
Paving Branch:			
Project S-1754 - Highway 1, Trans Canada sections, Capilano Bridge to east of Port Mann Bridge(see also Burnaby-Edmonds and Maillardville-Coquitlam)			425,189.86
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101 -Mapping and design study, North Shore transportation study, Mountain Highway interchange and Keith Road to Mt. Seymour Connection			22,787.11
Traffic Branch:			
Project E-1344 - Main Street at Mountain Highway, North Vancouver, signal and lighting revision		2,541.00	
E-2308 - Route 1-Mount Seymour Parkway (Fern Street to Riverside Drive), signal and lighting installation		192,138.00	194,679.00
Property Services Branch:			
Rights-of-way and Property Purchases Project P-0113 -Lynn Creek-Seymour River, Fern Street to Mount Seymour Parkway			297,794.18
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1725 - Fern Street to Mount Seymour Parkway, construction			2,057,840.87
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1714 - Seymour River Bridge, Mount Seymour Parkway		736,033.88	
B-2322 - Second Narrows Bridge, Trans Canada Highway, replacement of bearing base plates		112,453.12	848,487.00
Paving Branch:			
Project S-1754 - Highway 1, Trans Canada sections, Capilano Bridge to east of Port Mann Bridge(see also Burnaby-Edmonds and Maillardville-Coquitlam)			23,705.35
Total, North Vancouver-Seymour Electoral District			$5,152,765.71

OAK BAY-GORDON HEAD ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,004.14
Total, Oak Bay-Gordon Head Electoral District			$2,004.14

OKANAGAN NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,090,263.06
Snow removal			1,076,477.36
Bridge maintenance			145,087.29
Ferry maintenance and operation-			
Arrow Park Ferry		121,169.29	
Needles-Fauquier Ferry		1,064,287.03	1,185,456.32
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0125 - Minor Betterments, -Miscellaneous	142,983.76		
-Vernon, improve area roads, gravel	84,542.00	227,525.76	
C-0130 - Minor Betterments, miscellaneous		32,889.48	
C-0134 - Minor Betterments, miscellaneous		44,088.78	
C-0466 - Lumby-Mabel Lake Road, reconstruct and pave		359,863.09	
C-0467 - Silver Star Road, realignment and paving		225,000.00	
C-1471 - Woodslake Bottom and Lodge Roads, reconstruct, gravel and pave		2,365.00	
C-1473 - Highway 97, Oyama, Oceola, Trepanier, construction left turn slots (see also Okanagan South)		39,419.88	
C-1488 - Highway 6, Fauquier Slip, realign and repair		20,800.00	
C-1621 - Winfield area, major machine patching		101,533.29	
C-2130 - North Fork Road, ditch and gravel		50,000.00	
C-2132 - Finlaison Road, realign		63,711.82	
C-2133 - Tronson Road, reconstruction		74,999.13	
C-2134 - Trinity Valley Road, reconstruction		109,759.88	
C-2188 - Vernon area roads, paving		190,000.00	
C-2229 - Highway 97, Winfield, construction left turn slot		22,688.90	
C-2554 - Vernon area, miscellaneous paving		400,000.00	
C-2555 - Tronson Road, rock bluff		39,966.63	
C-2556 - Vernon area, miscellaneous gravelling(see also Shuswap-Revelstoke)		187,188.48	
C-2566 - Kelowna area, miscellaneous paving(see also Okanagan South)		60,862.27	
C-2567 - Kelowna area, miscellaneous gravelling(see also Boundary-Similkameen and Okanagan South)		12,391.46	
D-1553 - Rest area upgrading		5,167.44	
N-0375 - Guardrail installation		57,608.00	
N-0376 - Guardrail installation		19,396.75	
W-0346 - Fencing Schedule 2 Highways		21,246.40	
W-2260 - Fencing Schedule 2 Highways		3,008.13	2,371,480.57
Construction Branch:			
Project C-1838 - Highway 6, Monashee, Inonoaklin - Bench Creek			862,881.69

OKANAGAN NORTH ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-2251 - Traves Bridge, rebuild section		15,228.00	
B-2292 - Sugar Lake Bridge, rebuild pile approaches		71,834.71	87,062.71
Paving Branch:			
Project S-0637 - Highway 6, Village of Lumby, Catt Avenue to Shuswap Avenue, storm sewer, curb and gutter and paving			638,725.94
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Highway 6 in Vernon 27th Street to 32nd. Avenue		25,632.44	
-Highway 6 realignment at Burton Slide		12,394.88	
-Highway 97 to Crosier Road Swan Lake junction(see also Shuswap-Revelstoke)		3,833.55	
-Minor road surveys		13,338.92	
-Okanagan Highway 97 (Vaseaux Lake)		530.20	
-Okanagan Highway from Oyama to Vernon		164,212.79	
-Survey from Highway 97 at Army Camp to junction of 27th Street and Highway 6		30,632.27	
-Vernon Grid Roads		471.49	
-Vernon, west entrance to Lumby		837.00	
-Westside Road from I.R.10 to Ceasars Landing		223,109.89	474,993.43
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, Trinity Valley Road, remove and replace existing hydro poles adjacent to travelled roadway		3,863.00	
C-0203 - Intersection Improvements, Highway 97 at Reservoir Road, left turn slot, ingress and egress lanes required		21,056.00	
C-0204 - School Route Improvements,			
-Paved footpath, Pottery Road, Vernon.	5,000.00		
-Shoulder widening to Whitevale School, Vernon	6,862.00		
-Whitevale Road, remove stumps immediately adjacent to shoulder 3km	4,300.00	16,162.00	
C-0205 - General Safety Works, Okanagan Landing Road, build and extend walkway along narrow sections, 4.2km		14,108.00	55,189.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of Statutory Right-of-Way for Highway, Vernon Slocan Highway 6, School Road to Noble Canyon Road 2.5km+-		19,000.00	
-Through Lots 11 and 12 Plan 12737, Sec.11, Tp8, O.D.Y.D.(drainage easement)		521.28	
-Townsite Road in N.1/2 of the Frac. N.W.1/4, Sec.13, Tp.71, K.D.		700.00	

OKANAGAN NORTH ELECTORAL DISTRICT - continued

	$	$	$
Legal Surveys Office (continued):			
Legal Surveys - Project L-0099			
-Vernon-Slocan Highway 6, W.Bdy., D.L.361 to E.Bdy, S.W. 1/4, section 6, Tp44, O.D.Y.D.		13,031.83	
-Westside Road through D.L.1292 and Lot plan 23326, D.L.3541,O.D.Y.D.		3,900.00	37,153.11
Traffic Branch:			
Project E-1129 -Vernon, various intersections,operation red light		12,238.55	
E-1640 - 1. Route 97A(George St.) at Cliff Street, Enderby,signal and lighting installation			
2. Route 97 at Old Kamloops Road, Vernon, lighting and flashing beacon installation		21,193.80	
E-1859 - Route 6 (Vernon Street) Catt Avenue, to Shuswap Avenue, Lumby, lighting and flashing beacon installation		11,668.40	45,100.75
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Bloom Road		2,500.00	
-Finlaison Road 162		18,750.00	
-Mountridge Road 589		1.00	
-Okanagan Highway 97, Bailey Road to Vernon		313,842.80	
-Okanagan Highway 97: Vernon Swan Lake		688.25	
-Oyama Road		7,408.00	
-Read Road		700.00	
-Trinity Valley Road		4,501.00	
-Tronson Road 131		10,836.00	
-Vernon - Slocan Highway 6		100.00	
-Westside Road, Caesar's Landing to Nahun		69,707.74	429,034.79
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1151 - 251B, 27th Street, City of Vernon			12,952.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1838 - Highway 6, Monashee, Inonoaklin - Bench Creek		1,041,196.15	
-clearing and grubbing		103,399.47	1,144,595.62
Paving Branch:			
Project S-0637 - Highway 6, Village of Lumby, Catt Avenue to Shuswap Avenue, storm sewer, curb and gutter and paving			939,245.81
Total, Okanagan North Electoral District			$12,595,699.45

OKANAGAN SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,985,600.05
Snow removal			612,012.34
Bridge maintenance			118,787.19
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour Project C-0130 - Minor Betterments, miscellaneous		226,616.84	
C-1472 - Glenrosa Road, Route 97-Fenton Road, reconstruction and paving		30,000.00	
C-1473 - Highway 97, Oyama, Oceola, Trepanier, construction left turn slots (see also Okanagan North)		33,579.89	
C-1622 - Westbank area major machine patching		108,997.56	
C-2227 - Old Vernon Road, paving		72,997.90	
C-2566 - Kelowna area, miscellaneous paving		407,309.07	
C-2567 - Kelowna area, miscellaneous gravelling (see also Boundary-Similkameen and Okanagan North)		94,175.11	
C-3805 - Kelowna City miscellaneous roads, reconstruct and paving		399,718.89	
W-0347 - Fencing Schedule 2 Highways		12,999.00	1,386,394.26
Construction Branch:			
Project C-0982 - Glenmore Street extension, greater Kelowna grid road system		671,290.90	
C-1066 - Highway 97, Westbank to Kelowna,			
-Clearing and fencing, contract for the employment of Indians on Tsinstikeptum Reserve 10	1,214.86		
-Grading	238,627.64	239,842.50	
C-2363 Beaver Lake Road area, slide repairs		98,020.00	
C-2459 - Okanagan Highway 97, Harvey Avenue/Kelowna, Okanagan Bridge to Pandosy Street, reconstruction		100,847.51	1,110,000.91
Roadside Development and Landscape Branch:			
Project D-1805 - Highway 97, landscape development, Station 767+00 to Westside Road, Kelowna		110,985.88	
D-1806 - Highway 97, landscape development, sowing grass seed, fertilizing, watering and weeding of Highway right-of-way	47,963.94		
-Westside Road to Kelowna Bridge, Kelowna	93,360.44	141,324.38	252,310.26
Bridges and Ferry Landings:			
Day Labour Project B-2298 - Mill Creek Bridge and Mission Bridge, redeck and repair		12,386.01	
B-2319 - Okanagan Lake Bridge, pontoon repairs		50,000.00	
B-2396 - Mission Creek Bridge, replacement		80,112.95	142,498.96

OKANAGAN SOUTH ELECTORAL DISTRICT - continued

	$	$	$
Bridge Branch:			
Project B-0688 - Okanagan Lake Bridge, proposed 4 laning		402,943.46	
B-0692 - Okanagan Lake Bridge, Kelowna		97.50	
B-1054 - Mission Creek Bridge, K.L.O.Road,addition of sidewalk		518.50cr	402,522.46
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Rutland to Region 3 Boundary and Big White Road from Junction 33 eastbound		353,175.96	
S-1686 - Highway 97,Summerland to Peachland section, intermittent paving (see also Boundary-Similkameen)		553,419.59	906,595.55
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys generally - Project L-0101			
-Bartley Road - Shannon Lake Road connector		6,808.08	
-Centreline survey and site plan, Okanagan Lake Bridge		20,422.47	
-Greater Kelowna Road grid system		410.00	
-Harvey Avenue (Kelowna)		105,414.09	
-Highway 33 Rutland from Highway 97 to McKenzie Road		135,048.97	
-Kelowna Couplet		821.04	
-Minor road surveys		35,448.43	
-Okanagan from Princeton Avenue Junction Peachland		416.38	
-Westbank, Kelowna impact study		18,360.66	323,150.12
Highway Safety Branch:			
Project C-0205 - General Safety Works, installation of 2 davit-mount signs in Kelowna on Highway 33			2,835.00
Legal Surveys Office:			
Legal surveys - Project L-0099			
-Okanagan Highway 97 and Frontage Road through parts of D.L.'s 5055 and 5064, O.D.Y.D., Westbank		5,371.36	
-Okanagan Highway 97 and Frontage Roads through part of Tsinstikeptum I.R.9 and D.L.5055,5056 and 2044 O.D.Y.D.		44,200.00	
-Okanagan Highway in Lot 1, Plan 24964, D.L.138, O.D.Y.D. (Harvey Avenue, Highway 97)		900.00	
-Part of Lot A, Plan 5315, D.L.219, O.D.Y.D.,Chapin Road, drainage easement		1,133.25	
-Part of Lots 262, 268 and 269, Plan 1247, NE1/4 Sec.31, Tp29 O.D.Y.D. Swamp and Dehart Roads		472.30	
-Reece road right-of-way in part of Lot Plan 15752, D.L.805, O.D.Y.D., Westbank		1,500.00	
-Shannon Lake Road, East Boundary Road, and Lower Boucherie Road in Tsinstikeptum I.R. 9		25,000.00	
-Through part of Lots 15 to 22 inclusive Block 1, Plan 272, (Harvey Avenue, Highway 97)		1,000.00	
-Westside Road through part D.L.3745, O.D.Y.D.		7,035.31	86,612.22

OKANAGAN SOUTH ELECTORAL DISTRICT - continued

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Traffic Branch:			
Project E-1692 - Route 97 at 13th Street, Peachland, lighting installation Route 3, 76th Avenue at 83rd Street, Osoyoos, flashing beacon replacement (see also Boundary-Similkameen)		6,860.14	
E-2338 - Route 97 at Bartley Road, Westbank, signal installation		29,227.77	
E-2388 - Route 97 at Leckie Road, Kelowna, signal revision		47,681.09	
E-2439 - Route 97, Kelowna Bridge, reversible lane control		4,660.91	88,429.91
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Camp Road		200.00	
-Chute Lake Road		1.00	
-Field Road		100.00	
-Glenmore Street extension		250,000.00	
-Glenrosa Road		15,000.00	
-Gravel pits		1,000.00	
-Harvey Avenue widening		896,227.45	
-Highway 33		2.00	
-Highway 97, Rosedale Avenue, Summerland		6,700.00	
-Hudson Road		4,000.00	
-K.L.O. Road		22,000.00	
-Kelowna-Westbank		4,351,336.20	
-Okanagan Highway 97		2,292.22	
-Okanagan Highway 97, Gorman's Mill - I.R.9		1,096,176.35	
-Okanagan Highway 97, Reid's Corner to Allison Lake		25,400.00	
-Rock Creek, Kelowna		74,000.00	
-Shannon Lake Road		3,711.00	
-Westside Road		37,447.07	
-Woodslake Bottom Road		34,500.00	6,820,093.29
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-0982 - Glenmore Street extension, greater Kelowna grid road system		1,677,347.26	
C-2431 - Okanagan Highway 97, Gorman's Mill to I.R.9 including Westbank Couplet, grading, paving and electrical		74,801.33	1,752,148.59
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0692 - Okanagan Lake Bridge, Kelowna			3,569,228.03
Paving Branch:			
Project S-2398 - Westside Road, Kelowna			214,275.68
Total, Okanagan South Electoral District			$19,773,494.82

OMINECA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,314,862.25
Snow removal			1,997,080.34
Bridge maintenance			330,392.47
Ferry maintenance and operation - Francois Lake Ferry			1,433,296.33
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0144 - Minor Betterments, miscellaneous		307,570.63	
C-0150 - Minor Betterments, miscellaneous		18,773.00	
C-0151 - Minor Betterments, miscellaneous		279,791.56	
C-0553 - New Nechako Bridge, at Vanderhoof, construct approaches		296,036.39	
C-1957 - Smithers local area roads, prepare for paving (see also Skeena)		36,399.78	
C-1958 - Burns Lake local roads, graded aggregate seal		199,021.74	
C-2063 - Sackner Road, backslope stabilization and fencing		26,877.51	
C-2064 - Mapes Road, Cottonwood Bridge approaches, reconstruct		89,325.55	
C-2065 - Sob Lake Road, realign and reconstruct		29,662.08	
C-2066 - Bave road, clear and construct		44,156.42	
C-2067 - Sackner Pit Road, construction		16,744.39	
C-2523 - Vanderhoof area miscellaneous gravelling		24,140.50	
C-2532 - Germansen Road, placing of crush		145,449.82	
C-2533 - Glenannan subdivision, haul gravel		24,768.71	
C-2534 - Vanderhoof area, miscellaneous farm roads, gravelling		46,203.62	
C-3039 - Tachie Road,reconstruction and gravel		301,410.64	
D-0010 - Rest area upgrading		3,773.15	
N-0393 - Guardrail installation		12,000.00	
N-0433 - Guardrail installation		8,160.00	
W-0360 - Fencing Schedule 2 Highways		19,825.00	
W-0363 - Fencing Schedule 2 Highways		5,800.68	
W-0364 - Fencing Schedule 2 Highways		18,083.20	1,953,974.37
Bridges and Ferry Landings:			
Day Labour			
Project B-0610 - Nechako River Bridge, Vanderhoof, major repairs		102,710.34	
B-2463 - Buck Bridge, removal		5,072.91	107,783.25
Bridge Branch:			
Project B-0708 - Vanderhoof West Bridge and Overhead, West Bridge-Highway 27, across Nechako River, West Overhead-Highway 27 over C.N.R.			16,354.15

OMINECA ELECTORAL DISTRICT - continued

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Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals,			
-Engen - Endako	440,104.20		
-Houston Overhead to Burns Lake	522,674.32		
-Topley Landing - Granisle	414,591.31	1,377,369.83	
S-1679 - Highway 27, Vanderhoof-Fort St.James, Nechako River Bridge approaches		4,503.75	
S-1737 - Yellowhead Highway 16 and Highway 35, Burns Lake to Tentagel		730,634.26	
S-1765 - Highway 16 and miscellaneous Smithers Roads (see also Skeena)		1,129,798.06	
S-1820 - Smithers area roads, asphalt concrete pavement supplied in place (see also Skeena)		32,082.95	
S-5501 - Francois Lake miscellaneous roads		170,755.34	3,445,144.19
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Burns Lake Bypass, Yellowhead Highway 16		339.96	
-Burns Lake, survey and design for connector route from Yellowhead Highway 16 to Highway 35 overpassing C.N.R.		28,017.80	
-Canadian National Overhead Westside at Vanderhoof		10,475.84	
-D.L.338 to D.L.623 Highway 16 west of Houston		16,935.63	
-Minor road surveys		422.12	
-Vanderhoof Grid-Boundary Road extension, Victoria Street to 4th Street		45,160.56	
-Vanderhoof-Stuart Lake(27),Nechako River Bridge approaches		4,744.31	
-Yellowhead Highway 16, Derksen Road to Carmen Hill Road 2 km east of Vanderhoof		24,866.77	130,962.99
Highway Safety Branch:			
Project C-0204 - School Route Improvements, pedestrian underpass, Route 16 at Chowsunket Street			3,000.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Nechako River Crossing Highway 27 S.Bdy.Sec.10 to N.Bdy.Sec.27 Range 5 Coast District		2,460.00	
-Yellowhead Highway 16, Telkwa through part of Lots 4 to 11 inclusive in S.W.1/4 Section 35,Township 5, Range 5, Coast District		1,449.54	3,909.54
Traffic Branch:			
Project E-1704 - Route 16 at Chowsunket Road, Fraser Lake pedestrian Underpass, lighting installation.		3,566.00	
E-1761 - 1. Route 16 at New Route 27 (weigh scale) and 2. New Route 27 at Braeside Road, Vanderhoof, lighting installations		49,371.34	52,937.34

OMINECA ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Barrett Station Road 2		1.00	
-Bave Road 191		3,476.25	
-Blackwater Road 10		250.00	
-Braeside Road 12		1,879.00	
-Byman Road 379		1.00	
-Crystal Road 231		1.00	
-Dirkson Road 26		60.00	
-Dog Creek Road 41		300.00	
-Fort Fraser Townsite Road 47		128.80	
-Francois Lake Road		4,428.50	
-Glenannan Road 163		1,183.00	
-Hansen Road 103		2.00	
-Highway 16 West		3,572.62	
-Highway 35, Burns Lake Bridge to Yellowhead Highway 16		445,396.56	
-Horn Road 286		1,200.00	
-Lakes District Road 104		1,090.00	
-Malcolm Road 441		1,513.00	
-McNolty Road 90		980.00	
-Road 527		1.00	
-Sackner Road 128		1,717.50	
-Sinkut Lake Road 65, Lakes Road 104 and Hargreaves Road 51		5,069.50	
-Sob Lake Road 102		4,719.00	
-Yellowhead Highway 16		95,414.60	572,384.33
Municipal Programs Branch:			
Amalgamation Grants			
Project O-2640 - District of Vanderhoof, roads maintenance grant			82,500.00
Secondary Highway Construction and Improvements			
Project V-1639 - 286B, Telkwa Coal Road, Village of Telkwa			6,685.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-2329 - Highway 35, Burns Lake C.N.R. Overpass approaches			340,641.81
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2369 - Walcott Footbridge, Walcott Road, replacement of timber towers			47,439.42
Paving Branch:			
Project S-1679 - Highway 27, Vanderhoof-Fort St. James, Nechako River Bridge approaches		1,134,981.88	
S-1737 - Yellowhead Highway 16 and Highway 35, Burns Lake to Tentagel		1,566,458.35	
S-1765 - Highway 16 and miscellaneous Smithers Roads(see also Skeena)		713,254.79	3,414,695.02
Total, Omineca Electoral District			$19,254,042.80

PRINCE GEORGE NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,500,521.88
Snow removal			960,479.37
Bridge maintenance			254,188.71
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0140 - Minor Betterments,			
-Gravelling	78,032.35		
-Miscellaneous	81,731.00	159,763.35	
C-1987 - Chief Lake and Ness Lake Roads, reconstruction		330,944.50	
C-1990 - Highway 97, north, Chief Lake Road-O'Dell Road, pavement preparation		48,748.00	
C-1991 - Wright Creek Road, reconstruct and gravel		103,146.35	
C-1992 - Salmon Valley Road, reconstruct and gravel		102,123.91	
C-1993 - Mackenzie Arterial reconstruct		99,860.74	
C-2513 - Prince George area, miscellaneous gravelling (Ness Lake Road, Salmon Valley Road, Wright Creek Road, Telachick Road and Beaverly Road)(see also Prince George South)		72,819.93	
N-0429 - Guardrail Installation		26,555.50	943,962.28
Construction Branch:			
Project C-0282 - Highway 97, John Hart-Peace River Highway, D.L.8917-Garbitt Tunnel, reconstruction (see also South Peace River)		291,085.11	
C-1703 - Foothills Boulevard, Otway Road, North Nechako Road, Prince George, recoveries from Urban Transportation Assistance Program (see also Prince George South)		69,158.22cr	
C-2135 - Highway 97, Bear Lake-Red Rocky, reconstruction		1,431,144.57	
C-2792 - Hart Highway 97, Nechako River Bridge to Chief Lake Road, construction		38,586.49	1,691,657.95
Bridges and Ferry Landings:			
Day Labour			
Project B-2261 - Old Nechako Bridge, major repair		51,506.99	
B-2262 - Old Fraser River Bridge, major repair (see also Prince George South)		14,707.61	66,214.60
Bridge Branch:			
Project B-1400 - Foothills Road Bridge over Nechako River			601,382.29
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals,			
-Angusmac Bridge km86.4 to km114	211,601.04		
-Chief Lake Road km14.6 to km 47.6 on Dell Road	200,268.99	411,870.03	
S-0085 - Miscellaneous Drum Mix Paving,			
-Highway 97, Angusmac Bridge to Logging Road		292,240.74	704,110.77

PRINCE GEORGE NORTH ELECTORAL DISTRICT - continued

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Bear Lake B.C.R. Underpass, Hart Highway 97		17,775.19	
-Chief Lake Road to Parsnip River		49,492.62	
-John Hart from Parsnip River to Pine Pass		218.35	
-Minor road surveys (see also Prince George South)		169.23	
-Miscellaneous from Prince George to Northwood Pulpmill access road (see also Prince George South)		48.88	67,704.27
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-John Hart-Peace River Highway 97, highway right-of-way through part of the S.W.1/4 D.L.3818 C.D.		1,350.00	
-John Hart-Peace River Highway 97 through District Lot 3818, Cariboo District		3,260.00	
-McLeod Lake to Crooked River Section, John Hart-Peace River Highway 97		4,346.56	
-Plan of statutory right-of-way for highway over part of Lot 1, Plan 14932, D.L.3310 Cariboo District Yellowhead Highway 16 (McBride)		842.11	9,798.67
Traffic Branch:			
Project E-2181 - Foothills Boulevard extension, Prince George, lighting installation (see also Prince George South)			12,328.28
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Bell Road 257		3,770.00	
-Chief Lake Road 225		216.00	
-Eastside Road 265		1.00	
-Hart Highway 97, Knell Road to Chief Lake Road		547.00	
-Highway 97, Parsnip River to Bear Creek		1,871.84	
-Lacasse Road		756.00	
-Ness Lake Road 250		2,284.70	
-Old Summit Lake North Road 272		526.75	
-Salmon Valley Road 270		7,509.50	17,482.79
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-0282 - Highway 97, John Hart-Peace River Highway, D.L.8917-Garbitt Tunnel, reconstruction (see also South Peace River)		1,879,227.77	
C-1703 - Foothills Boulevard, Otway Road, North Nechako Road, Prince George, construction (see also Prince George South)		1,325,428.54	3,204,656.31
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1400 - Foothills Road Bridge over Nechako River			472,722.84
Total, Prince George North Electoral District			$10,597,211.01

PRINCE GEORGE SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			6,444,399.46
Snow removal			2,528,078.73
Bridge maintenance			474,519.86
Ferry maintenance and operation-Isle Pierre Ferry			11,449.98
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0140 - Minor Betterments,			
-Ditching	102,097.36		
-Miscellaneous bridge maintenance	77,655.00		
-Miscellaneous	153,383.40	333,135.76	
C-0145 - Minor Betterments, miscellaneous		162,282.92	
C-1988 - Longworth access road, construction		44,054.90	
C-1989 - Highway 16 west, widen at end of 4 lane		24,234.65	
C-1994 - Highway 16 east, Upper Fraser Road to District Boundary, pavement preparation		859,307.05	
C-1995 - Cummings Road, reconstruct and gravel		105,092.40	
C-1996 - Johnson Road, reconstruct and gravel		146,780.08	
C-1997 - Bendixon Road, reconstruct and gravel		41,401.28	
C-1998 - Buckhorn Road, crush and gravel		95,112.25	
C-2001 - Dome Creek-Kidd Road, reconstruct and gravel		20,000.60	
C-2003 - West Lake Road, reconstruct and gravel		262,061.34	
C-2005 - Lund Road, reconstruct and gravel		57,671.65	
C-2006 - Lower Mud Road, reconstruct and gravel		64,898.96	
C-2007 - Norman Lake Road, reconstruct		26,469.00	
C-2010 - Camp Creek Road,reconstruct		75,000.00	
C-2016 - Camp Creek Road, Hixon area, reconstruct		86,500.00	
C-2024 - Swanson Road, Riverbank protection		20,000.00	
C-2048 - Eddy Road, reconstruction		52,428.28	
C-2049 - Barnett Road, reconstruction		40,063.43	
C-2050 - Highway 16 and 5, various sections, pavement repair (see also Kamloops)		154,994.09	
C-2051 - Eddy Road, gravelling		55,973.15	
C-2052 - Dunster Station Road, gravelling		64,784.54	
C-2053 - Dore River Road, widen and gravel		68,764.83	
C-2054 - Mountain View Road, reconstruct and gravel		22,719.13	
C-2055 - Cedarside Road,gravelling		20,740.73	
C-2056 - Blackman Road, gravelling		36,172.09	
C-2057 - Cranberry Lake Road,reconstruct and gravel		43,056.45	

PRINCE GEORGE SOUTH ELECTORAL DISTRICT - continued

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Roads (continued):			
Day Labour			
Project C-2062 - McBride miscellaneous roads, major ditching, surveys (see also Kamloops)		43,143.50	
C-2333 - Dunster Station Road, realignment and reconstruction		161,525.19	
C-2377 - Westlund Road, relocate		19,582.30	
C-2512 - Highway 16 east, Bowron River to Crescent Spur, clearing and drainage		396,828.54	
C-2513 - Prince George area, miscellaneous gravelling (Ness Lake Road, Salmon Valley Road, Wright Creek Road, Telachick Road and Beaverly Road)(see also Prince George North)		72,819.94	
C-2527 - Mountain View Road, rip rap		60,934.53	
C-2528 - Abernathy Rock Quarry, preparing rip rap		26,775.81	
C-2529 - Highway 16, West Twin to Crescent Spur, rockwork for widening in preparation for paving		267,503.39	
C-4180 - Upper Fraser Road,construct, gravel, and clear right-of-way		268,331.40	
D-0010 - Rest area upgrading		11,161.21	
N-0429 - Guardrail installation		26,555.50	
N-0434 - Guardrail installation		36,513.91	
W-0356 - Fencing Schedule 2 Highways		28,067.37	
W-0357 - Fencing Schedule 2 Highways		5,692.20	
W-0361 - Fencing Schedule 2 Highways		34,190.27	4,443,322.62
Construction Branch:			
Project C-1703 - Foothills Boulevard, Otway Road, North Nechako Road, Prince George, recoveries from Urban Transportation Assistance Program (see also Prince George North)			69,158.22cr
Roadside Development and Landscape Branch:			
Project D-1547 - Highway 16, Mount Terry Fox viewpoint, installation of flush toilets and walkways			82,664.46
Bridges and Ferry Landings:			
Day Labour			
Project B-2262 - Old Fraser River Bridge, major repair (see also Prince George North)		14,707.61	
B-2270 - Beaver Bridge, construct replacement		131,398.64	
B-2437 - Bateman Bridge, replace		29,338.96	
B-2526 - Lucerne Bridge, disassemble and replace with culverts		62,598.23	238,043.44
Bridge Branch:			
Project B-1070 - Swift Creek Bridge, Valemont secondary road		335,491.72	
B-2346 - C.N.R.Foothills Boulevard Underpass	878,897.67		
-Recoveries from Urban Transportation Assistance Program	445,297.21cr	433,600.46	769,092.18
Paving Branch:			
Project S-1678 - Highway 16,(Yellowhead Highway) Lee Road to Fraser River Bridge and miscellaneous roads		26,705.00	
S-1722 - Yellowhead Highway 16, east,Upper Fraser Road to Bowron River Bridge		1,498,764.73	
S-1727 - Upper Fraser Road		4,576.80cr	1,520,892.93

PRINCE GEORGE SOUTH ELECTORAL DISTRICT - continued

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Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Foothills Road Otway Road to Chief Lake Road		1,061.17	
-Highway 16 Prince George Airport Hill		73,548.42	
-Highway 97 at B.C.R. industrial site, Prince George		195.51	
-Minor road surveys (see also Prince George North)		169.22	
-Miscellaneous from Prince George to Northwood Pulpmill Access Road (see also Prince George North)		48.88	
-Prince George 5th Avenue, interchange with Highway 97		4,054.00	79,077.20
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Heritage Highway 52, N.Bdy., Sec.32, N.W.1/4 Sec.28 Tp.28 to S.Bdy.N.E.1/4, Lot 415 Peace River District			8,191.00
Traffic Branch:			
Project E-1165 - Route 97 at 15th Avenue, Prince George, signal and lighting revision		25,883.20	
E-1675 - Route 97 at Park Avenue (Railway Avenue), Prince George, signal and lighting revision		27,820.46	
E-2181 - Foothills Boulevard extension, Prince George, lighting installation (see also Prince George North)		18,492.42	
E-2309 - Route 97 at Fifth Avenue, Prince George, signal and lighting installation		54,346.88	
E-2328 - Route 16 from Vance Road/ Cowart Road to Domano Boulevard, Prince George, lighting installation		84,393.22	
E-2383 - Route 16 at C.N.R. Overhead approaches, Prince George, lighting installation		28,918.82	239,855.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Beaverly East Road 322		7,366.00	
-Camp Creek Road 330		380.00	
-Dunster Station Road 530		8,958.49	
-Dunster-Croyden Road		1,098.39	
-First and Patricia Railway Crossing		979,000.00	
-Foothills Boulevard, Otway Road to North Nechako Road		1,115.00	
-Highway 97 and Jenks Road		1.00	
-Highway 97, 5th Avenue intersection		98,655.32	
-Isle Pierre Road 303		4,349.00	
-Loos Road 481		1.00	
-Lower Mud River Road 310		2,000.00	
-Mountain View Road 544		2,615.25	
-Prospect Road 464		3,483.67	
-Raush Valley Road 535		1,816.81	
-Upper Fraser Road 458		5,733.50	
-Upper Mud River Road 308		24,009.67	
-West Lake Fraser River Road 330		1.00	
-Westlund Road		972.09	1,141,536.19

PRINCE GEORGE SOUTH ELECTORAL DISTRICT - continued

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EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-0698 - Hart Highway 97, 5th Avenue Interchange, Prince George		131,794.69	
C-1703 - Foothills Boulevard, Otway Road, North Nechako Road, Prince George, construction (see also Prince George North)		1,325,428.42	
C-1815 - Highway 16, C.N.R.Overhead approaches	657,786.33		
-Part 1: Highway 97, paving,Fifth Avenue, reconstruction Part 2: Highways maintenance yard, gravel and paving Part 3: Highway 16 C.N.R. Overhead approaches,paving west end of Fraser River Bridge	334,685.20	992,471.53	2,449,694.64
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2348 - Patricia Boulevard Overhead, Highway 16			851,806.83
Paving Branch:			
Project S-1678 - Highway 16 (Yellowhead Highway) Lee Road to Fraser River Bridge and miscellaneous roads		769,791.63	
S-1722 - Yellowhead Highway 16 East, Upper Fraser Road to Bowron River Bridge		1,784,746.51	
S-1727 - Upper Fraser Road		1,683,932.32	4,238,470.46
Total, Prince George South Electoral District			$25,252,736.56

PRINCE RUPERT ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,570,307.71
Snow removal			455,313.34
Bridge maintenance			133,675.52
Ferry maintenance and operation -			
Misty Islands Ferry subsidy		33,000.00	
Prince Rupert Ferry subsidy (Dodge Cove)		15,806.68	
Queen Charlotte Islands Ferry		659,250.58	708,057.26
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0147 - Minor Betterments, miscellaneous		15,207.38	
C-1939 - Highway 16, Masset-Port Clements, (Queen Charlotte Islands), pavement repair and seal		402,745.13	
C-1941 - Highway 16,Queen Charlotte Islands, rip rap protection		927,874.05	
N-0390 - Guardrail installation		19,880.66	1,365,707.22

PRINCE RUPERT ELECTORAL DISTRICT - continued

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Construction Branch:			
Project C-1684 - Yellowhead Highway 16, Tyee C.N.R. Overhead approach		56,709.07	
C-4483 - Prince Rupert-Ridley Island, construction		92,884.23	149,593.30
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -North Queen Charlotte Island, Masset area			33,231.69
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101 -Tyee to C.N.R. Overpass approaches			2,549.46
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Through District Lots 251, 1992 and 447, Range 5, Coast District, Ridley Island Road			577.44
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-3rd Avenue		453.10	
-Delkatla Street and Masset Arterial 494-R		605.28	
-Gravel pits		15,000.00	
-Yellowhead Highway 16, Tyee C.N.R. Overpass approaches		9,092.00	25,150.38
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1684 - Yellowhead Highway 16, Tyee C.N.R. Overpass approaches, construction		4,917,953.45	
-Intermittent paving Inver Creek to Tyee		248,382.39	
-Recoveries from Urban Transportation Assistance Program		1,472,249.45cr	3,694,086.39
Total, Prince Rupert Electoral District			$8,138,249.71

RICHMOND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,022,760.17
Snow removal			27,981.42
Bridge maintenance			461,126.19

RICHMOND ELECTORAL DISTRICT - continued

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, miscellaneous		108,799.84	
C-0122 - Minor Betterments, miscellaneous		7,000.00	
C-1434 - Minor Betterments, construction of Deas Communications Control Centre		50,000.00	
C-2381 - Westminster Highway, miscellaneous paving		100,000.00	
C-2481 - Westminster Highway 8 Road East, levelling and paving, course and shoulder gravel (see also New Westminster)		85,654.62	
W-0793 - Fencing Schedule 2 Highways		49,500.00	400,954.46
Construction Branch:			
Project C-3325 - Highway 99, George Massey Tunnel, installation of sprinkler system (see also Delta)			7,480.00
Bridges and Ferry Landings			
Bridge Branch:			
Project B-1666 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge, pile driving and load tests(see also Delta and New Westminster)		202,412.31	
B-1682 - Middle Arm Bridge, Sea Island Highway pile protection		54,392.38	256,804.69
Paving Branch:			
Project S-1738 - Lower Mainland miscellaneous roads, in New Westminster Highway District (see also Delta and Surrey)			189,692.28
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0038 - Fraser River Crossing (Annacis Island), Geotechnical Investigations (see also Delta and New Westminster)			75,486.33
Highway Design and Surveys Branch:			
Project L-0558 - Fraser River Crossing (Annacis Island), -4 Road, Hamilton(Gilley Route)		69,808.98	
-Westminster Highway, Knight Street to Hamilton Road		87,246.54	157,055.52
Highway Safety Branch:			
Project C-0205 - General Safety Works, assistance in funding for impact attenuators', replacement parts (see also Burnaby-Edmonds and Burnaby-Willingdon)			1,002.00
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Highway 99,widening through part of Section 22, Block 5 N. Range 6 West, N.W.D.			1,367.02

RICHMOND ELECTORAL DISTRICT - continued

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Traffic Branch:			
Project E-1117 - Route 99 at 5 Road interchange, Richmond, lighting installation		77,110.50	
E-2341 - Route 99, U.S. Border to 5 Road, directional signs installation(see also Delta and Surrey)		7,325.17	84,435.67
Property Services Branch:			
Rights-of-way and Property Purchases Project P-0113 -Knight Street Bridge, roadworks			3,001,145.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-2410 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Lulu Island, dredging contract (see also Delta and New Westminster)			20,307.84
Paving Branch:			
Project S-1738 - Lower Mainland miscellaneous roads, in New Westminster Highway district (see also Delta and Surrey)			12,573.82
Total, Richmond Electoral District			$5,720,172.41

ROSSLAND-TRAIL ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,751,226.94
Snow removal			1,083,221.00
Bridge maintenance			63,716.99
Ferry maintenance and operation- Castlegar Ferry			248,735.92
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0132 - Minor Betterments, miscellaneous		219,365.57	
C-1875 - Seven Mile Dam Road, washout repairs		248,505.58	
C-1876 - Pass Creek Road, reconstruction		289.24	
C-1877 - Miscellaneous roads Rossland, hot mix pave		139,999.78	
C-1878 - Castlegar ferry ramps, pave		19,849.81	
N-0382 - Guardrail installation		41,891.12	669,901.10
Bridges and Ferry Landings:			
Day Labour			
Project B-2244 - Beaver Creek Bridge Ross Spur, replace			93,771.98

ROSSLAND-TRAIL ELECTORAL DISTRICT - continued

	$	$	$
Bridge Branch:			
Project B-0566 - Highway 22, Trail-Tadanac relocation, C.P.R. underpass and excavation		147,088.97	
-Recoveries from Urban Transportation Assistance Program		96,560.00cr	50,528.97
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Highway 22,Castlegar to Blueberry Creek, Highway 3A, Castlegar to Thrums		94,259.88	
S-1824 - Highways 3, 3A, 3B and 6 in the Nelson area, miscellaneous paving (see also Nelson-Creston)		89,118.17	183,378.05
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Castlegar interchange		1,981.80	
-Castlegar-Pass Valley (Pass Creek Road)		28,224.70	
-Highway 3A and 22 from Earl Street to St Paul Street		798.00	
-Highway 3A from Glenmerry to Montrose		11,322.25	
-Highway 3A from Tadanac to Trail		18,362.24	
-Minor road surveys		10,426.94	71,115.93
Highway Safety Branch:			
Project C-0204 - School Route Improvements, Highway 3B/22, realignment of intersection at Webster school to accommodate cross-walk signal			14,999.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Balsam Road 122 and Ross Spur Road 106 in Lot 8, Plan 828, District Lot 1237, K.D.		496.00	
-Highway through blocks 2, 3 and 4, S.L.3 D.L.4599, Plan 1704,K.D. (Gravel Pit, Robson) E Creek		900.00	
-Highway 22 Trail-Tadanac relocation and C.P. rail relocation within part of W.L.11, 4579, K.D.		1,000.00	
-Reposting of monument at south west corner of Lot 1, Plan 12964, D.L.8392, K.D. (John Road)		400.00	
-Trail-Waneta Highway 22, amendments for Lot 205, 205A and Township 7A K.D.		1,762.25	4,558.25
Traffic Branch:			
Project E-1810 - Route 3B, at Route 22 Rossland, lighting installation		2,893.09	
E-2323 - Route 3B/22 at Murray Drive, Warfield, signal and lighting installation		22,141.20	25,034.29
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Old Salmo Road 81		2,600.00	
-Pass Creek Road 260		106,238.58	
-Southern Trans Provincial Highway 3, Glenmerry - Montrose		502.50	
-Trail-Tadanac Highway		15,935.40	125,276.48

ROSSLAND-TRAIL ELECTORAL DISTRICT - continued

	$	$	$
Municipal Programs Branch:			
Amalgamation Grants			
Project O-2643 - City of Rossland, curb and gutter and storm sewer installations on Columbia Avenue(622R) in conjunction with downtown revitalization			154,525.00
Secondary Highway Construction and Improvements			
Project V-0730 - 129B, Columbia Gardens Road, Village of Fruitvale		1,137.50	
V-1136 - 285B, Warfield Hill, City of Trail		23,000.00	24,137.50
EMPLOYMENT DEVELOPMENT ACCOUNT			
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0566 - Highway 22, Trail-Tadanac relocation, C.P.R.underpass and excavation		891,392.07	
-Recoveries from Urban Transportation Assistance Program		699,962.16cr	191,429.91
Paving Branch:			
Project S-1824 - Highways 3, 3A, 3B and 6 in the Nelson area, miscellaneous paving (see also Nelson-Creston)			144,258.73
Total, Rossland-Trail Electoral District			$4,899,816.04

SAANICH AND THE ISLANDS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,631,725.22
Snow removal			157,253.28
Bridge maintenance			84,913.86
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments, miscellaneous		10,961.00	
C-0153 - Minor Betterments, miscellaneous		129,405.25	
C-2152 - North End Road, widen		111,317.65	
C-2154 - Wain Road, pave overlay		74,050.38	
C-2378 - Saanich area miscellaneous roads, surfacing		232,871.00	
C-2571 - Galiano, Mayne, Pender and Saltspring Islands, various roads, pave		100,910.01	
C-2572 - Galiano, Mayne, Pender and Saltspring Islands, various roads, brushing		27,370.00	
C-2573 - Musgrove Road, ditch, widen and gravel		24,957.75	711,843.04

SAANICH AND THE ISLANDS ELECTORAL DISTRICT - continued

	$	$	$
Construction Branch:			
Project C-0408 - Clanton Road extension, Galiano Island, reconstruction and paving		288,731.66	
-gravelling and paving		186,340.25	475,071.91
Bridges and Ferry Landings:			
Day Labour			
Project B-2279 - Canal Bridge, replace piling			81.00
Bridge Branch:			
Project B-1274 - Vernon Avenue overhead, C.N. Railway overpass, Seymour Avenue, Patricia Bay Highway			
Recoveries from Urban Transportation Assistance Program		26,962.52cr	
B-1733 - Interurban overpass McKenzie Avenue		148,729.80	121,767.28
Paving Branch:			
Project S-0085 - Miscellaneous Drum Mix Paving, -slurry seal program Greater Victoria area			43,010.06
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Durrance Lake Road relocation (Hartland Road-Durrance Lake)		64,083.79	
-Haliburton - Island View		38.00	
-Interchange at McKenzie Avenue and Patricia Bay Highway (17)		513.26	
-McKenzie Avenue, from Trans Canada Highway(Victoria outlet) to Highway 17(Pat Bay Highway)		21,916.38	
-Pat Bay Highway, Beacon Avenue interchange		8,042.00	94,593.43
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Hemer Road right-of-way through remainder west 60 acres, Section 13, Range 2, Cedar District		153.00	
-Highway through part of Lot 14, Plan 4179 and Lot 1, Plan 10288, Section 9, Range 3 east, North Saanich District, Highway 17		425.00	
-McKenzie Avenue extension, Burnside Road to E.Bdy, Sec.77, Victoria District		5,231.46	
-Over part of Lots 2 and 3, Plan 21157, Section 15, Range 1, south North Saltspring Island, North End Road		604.30	6,413.76
Traffic Branch:			
Project E-1613 - Route 17 at Beacon Avenue, (390R) Sidney,traffic signal and lighting installation (signal revisions)		590.00	
E-1638 - Route 1(Douglas) at Saanich Road, Saanich,signal and lighting revision		9,191.00	
E-1804 - McKenzie Avenue extension Route 17, Saanich signal and lighting installation		224,868.00	
E-2375 - Route 17 at Cloverdale Avenue, Saanich, signal revision		14,558.00	249,207.00

SAANICH AND THE ISLANDS ELECTORAL DISTRICT - continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Clanton Road extension Galiano Island		47,125.00	
-Kelly Road extension		40,750.00	
-McKenzie Avenue extension		77,768.60	
-Zarelli Road		17,000.00	182,643.60
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0797 - 121B, Keating Cross Road, District of Central Saanich			83,406.27
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1711 - Part B - McKenzie Avenue extension, Burnside Road to Douglas Street, construction Part C - Swan Creek Bridge, construction Part D - Carey Road, pedestrian overpass, construction			4,678,488.32
Bridge Branch:			
Project B-1733 - Interurban overpass, McKenzie Avenue			1,610,952.25
Total, Saanich and the Islands Electoral District			$11,131,370.28

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,941,073.88
Snow removal			2,464,956.57
Bridge maintenance			504,920.68
Ferry maintenance and operation-			
Shuswap Lake Ferry subsidy		26,400.00	
Upper Arrow Lakes Ferry		1,511,608.58	1,538,008.58
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0124 - Minor Betterments, miscellaneous		342,400.00	
C-0125 - Minor Betterments, miscellaneous		66,533.05	
C-0138 - Minor Betterments, miscellaneous		228,545.08	
C-0468 - Grandview Bench Road, reconstruction		99,850.92	
C-1463 Trans Canada Highway, Lybarger Road, reconstruction of junction and left turn slot		25,000.00	
C-1922 - Begbie Road clearing and reconstruction		25,000.00	

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

		$	$	$
Roads: (continued)				
Day Labour				
Project	C-1923 - Balfour-Galena Bay, clearing and reconstruction		49,999.35	
	C-1924 - Mabel Lake Road, reconstruction		59,998.33	
	C-1925 - Highway 31, Trout Lake-Galena Bay, reconstruction		262,898.42	
	C-1926 - Beaton-Armstrong Lake Road, reconstruction		159,998.44	
	C-1927 - Highway 23, Nakusp-Revelstoke, shouldering and ditching		82,093.88	
	C-1928 - Hill Creek Road, reconstruction		79,994.60	
	C-2187 - Pleasant Valley Road, junction Highway 97A, construction		324,976.83	
	C-2196 - Trans Canada Highway 1, Cedar Heights, construct left turn slot		39,529.40	
	C-2197 - Trans Canada Highway 1, area A miscellaneous slide repairs		10,836.17	
	C-2198 - Squilax-Turtle Valley Road, reconstruction		49,967.45	
	C-2199 - Salmon River Road, Kaiser Bridge approaches, reconstruction		69,000.90	
	C-2200 - Skimikin Road, construction and gravelling		320,000.00	
	C-2203 - Chase-Falkland Road, construction and gravelling		207,000.00	
	C-2204 - Chase-Falkland Road 194C, reconstruction and gravelling		275,000.00	
	C-2205 - Squilax-Anglemont Road, reconstruction		205,000.00	
	C-2206 - Samuelson Road, reconstruction		75,000.00	
	C-2207 - Salmon Arm area road, engineering		50,000.00	
	C-2208 - Salmon Arm area roads, miscellaneous		65,000.00	
	C-2374 - Shuswap Road, Kamloops widening of Hoffman's Bluff		69,711.86	
	C-2394 - Highway 97A, Mara Lake slide, preliminary stabilization		199,835.30	
	C-2552 - Kamloops-Shuswap Road, gravelling		49,910.51	
	C-2553 - Barnhartvale Road, gravelling		49,993.48	
	C-2556 - Vernon area, miscellaneous gravelling (see also Okanagan North)		13,873.25	
	D-1553 - Rest area upgrading		9,043.02	
	N-0374 - Guardrail installation		39,588.00	
	N-0388 - Guardrail installation		54,600.00	
	W-0345 - Fencing Schedule 2 Highways		101,935.62	
	W-0346 - Fencing Schedule 2 Highways		14,164.27	3,776,277.23
Bridges and Ferry Landings:				
Day Labour				
Project	B-1438 - Kaiser Bridge, reconstruct		45,000.00	
	B-2190 - Old Columbia River Bridge install steel deck and timber sidewalk		273,000.00	
	B-2257 - Armstrong Lake Bridge, construction		125,000.00	
	B-2291 - Chase Bridge, repair pile bents		25,000.00	
	B-2546 - Crazy Creek Bridge, Three Valley overpass, Woods overpass		15,346.39	483,346.39

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
Bridge Branch:			
Project B-0551 - Enderby Bridge over Shuswap River, Mabel Lake Road		312,038.52	
B-2649 - Pritchard Bridge, Pinantan Road		272,182.39	584,220.91
Ferries:			
Project H-2407 - M.V.Galena, replace engines and generators			206,480.00
Paving Branch:			
Project S-0034 - Highway 23,Revelstoke-Mica Highway relocation, Downie Creek to Bigmouth Creek section		32,823.22cr	
S-0084- Miscellaneous Surface Seals,			
-Graded aggregate seal, Shuswap Lake area-Little Shuswap Road	89,667.58		
-Sicamous-Grindrod	256,468.39	346,135.97	
S-1009 - Highway 23,Revelstoke-Mica Highway relocation, Martha Creek to Carnes Creek		118,726.83	
S-1063 - Highway 23,Revelstoke-Mica Highway relocation, Mars Creek to Downie Creek		99,052.21	
S-1730 - Salmon Arm District, miscellaneous roads		27,982.00	
S-1731 - Squilax-Anglemont, Harding Roads, North Shuswap		15,234.48cr	
S-1822 - Highway 23,Revelstoke-Mica Highway relocation, Revelstoke to Martha Creek and miscellaneous roads		613,206.40	
S-1843 - Highway 23,Revelstoke-Mica Highway relocation, Bigmouth Creek to Mica Damsite		213,095.85	1,370,141.56
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Aerial Photography, Highway 1 Sicamous to Revelstoke		31,579.05	
-Design of reconstruction of Highway 23 section 2		11.75	
-Highway 1, Salmon River to Shuswap Street in Salmon Arm		2,619.00	
-Highway 97 to Crosier Road Swan Lake junction(see also Okanagan North)		3,833.53	
-Improvement of west intersection at Revelstoke		500.00	
-Minor road surveys		16,098.44	
-Salmon Arm from Shuswap to 40th Street North East on Highway 1		2,407.94	
-Shuswap River Bridge at Enderby		769.44	
-Sicamous to Solsqua, four laning		2,627.32	
-Trans Canada Highway 1-Blind Bay, upgrading and intersection design		42,497.46	102,943.93
Highway Safety Branch:			
Project C-0203 - Intersection Improvements,			
-Highway 97A,intersection and sight distance improvements at Rosedale Avenue, Armstrong	8,000.00		
-Highway 97A and Highway 97B reconstruct intersection and curb to design and surveys plan	20,159.00	28,159.00	
C-0205 - General Safety Works, Enderby/Mabel Lake Road, Halfway Hill slide and no-post guardrail		9,099.00	37,258.00

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
Traffic Branch:			
Project E-2364 - Route 1 at 10th Street S.W.(Piccadilly Road), Salmon Arm, signal installation and lighting revision			31,835.59
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Cambie Solsqua Road 671 W.Bdy section 21 to Section 23, Tp.22, R.7, W6M, K.D.Y.D.		13,599.75	
-Through part of Sections 20 and 21, Township 23, R.4, W6M, Trans Canada Highway-Camp Creek revision		2,401.08	
-Through parts of Sections 32 and 33 Township 21,Range 10,W6M, 1.3km+- Tappen Notch Hill Road 29		3,381.67	
-Sicamous-Solsqua Road from Section 6 to Section 17, Township 22, Range 17, W6M		9,370.43	
-Yankee Flats Road 363 through S.W.1/4, Section 18, Township 18, Range 10, W6M, K.D.Y.D.		987.93	29,740.86
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Cabeaux Road		3,400.00	
-Carlin Road		3,520.78	
-Coell Road 29 - Jones Road		4,450.00	
-Galligan Road 68		4,138.50	
-Gravel pits		459.81	
-Grindrod-Salmon Arm Highway 97B		3,082.00	
-Hazelhurst Road 221		350.00cr	
-Holten Road 202		1.00	
-Notch Hill Road 410		1,236.23	
-Purchase of Seymour Arm Steel Girder Bridge		39,651.73	
-Revelstoke Eastern access		931.58	
-Rosemond Lake Road 92		3,350.00	
-Three Valley Siding Road 112		4,491.24	
-Trans Canada Highway widening at Glenedin Road		385.00	
-Two Mile Road 512		400.00	
-View Road 99		4,500.00	
-Wrights' Mill Road 32		2,500.00	
-Yankee Flats Road 363		4,320.00	80,367.87
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1301 - City of Revelstoke		150,000.00	
O-2373 - District of Salmon Arm, Kault Hill Road		50,000.00	200,000.00
Secondary Highway Construction and Improvements			
Project V-1167 - 282B, Pine Street, Village of Chase		750.00	
V-2492 - 295B, Victoria Road, Railway Avenue, 4th Street, City of Revelstoke		102,840.60	
V-2622 - 24B, Salmon Arm-Enderby, District of Salmon Arm		17,123.96	120,714.56

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
HYDRO DEVELOPMENT - HIGHWAY CONSTRUCTION			
Roads:			
Construction Branch:			
Project C-2352 - Highway 23, Revelstoke-Mica Highway relocation	68,206.31		
-Sta.891, St. Cyr Culvert repair	167,143.89	235,350.20	
C-2353 - Highway 23, Revelstoke-Mica Highway relocation, km 92, gravel placement		44,042.79	
C-2354 - Highway 23, Revelstoke-Mica Highway relocation, km 37, B. C. Hydro relocation		46,298.54	
C-2399 - Highway 23, Revelstoke-Mica Highway relocation, berm placement		65,072.75	
C-2417 - Highway 23, Revelstoke-Mica Highway relocation, slide monitoring and slide repairs		12,230.85	
C-2418 - Highway 23, Revelstoke-Mica Highway relocation, road relocation		251,503.53	
C-3936 - Highway 23, Revelstoke-Mica Highway relocation, construction Revelstoke to Mica Sta.840+52.08 to Sta.908+68.366		1,235,180.21	
C-3943 - Highway 23, Revelstoke-Mica Highway relocation, Laforme Creek to Downie Creek Section Sta.586+13.7 to Sta.680+30		11,399.00	
C-3960 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite Section Sta.1071+59.984 to Sta.1162+93.960		1,141.00	
C-3961 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite Section Sta.1182+40 to Sta.1255+44		10,746.00	
C-3962 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite Section Sta.1255+44.263 to Sta.1325+90.713		677,834.30	2,590,799.17
Geotechnical and Materials Engineering Branch:			
Project G-0428 - Highway 23, Revelstoke-Mica Highway relocation, Geotechnical investigations			767.61
Highway Design and Surveys Branch:			
Project L-3889 - Highway 23, Revelstoke-Mica Highway relocation, Revelstoke Dam site to LaForme Creek Section 1, 8.0km to 27.5km			53,710.78
Property Services Branch:			
Project P-0037 - Rights-of-way and Property Purchases, Highway 23, Revelstoke -Mica Highway relocation			952.50
Bridges:			
Bridge Branch:			
Project B-0796 - Highway 23, Revelstoke-Mica Highway relocation, Carnes Creek and Laforme Creek Bridges		2,340.00	
B-1079 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek Bridge		647,950.95	650,290.95

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch:			
Project S-0034 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Bigmouth Creek Section		32,823.22	
S-1009 - Highway 23, Revelstoke-Mica Highway relocation, Martha Creek to Carnes Creek		118,726.83cr	
S-1063 - Highway 23, Revelstoke-Mica Highway relocation, Mars Creek to Downie Creek		70,932.74cr	
S-1822 - Highway 23, Revelstoke-Mica Highway relocation, Revelstoke to Martha Creek and miscellaneous roads		863,268.86	
S-1843 - Highway 23, Revelstoke-Mica Highway relocation, Bigmouth Creek to Mica Damsite		1,760,716.89	2,467,149.40
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-2445 - Sicamous drainage system			90,965.13
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0551 - Enderby Bridge, over Shuswap River, Mabel Lake Road		1,169,908.33	
B-2347 - Boston Bar to North Bend access		19,718.91	
B-2393 - Clanwilliam overhead, Trans Canada Highway, repair to hanger and Portal Street		30,888.55	1,220,515.79
Paving Branch:			
Project S-1730 - Salmon Arm District, miscellaneous roads		1,770,836.24	
S-1731 - Squilax-Anglemont, Harding Roads, North Shuswap		1,614,301.13	3,385,137.37
Total, Shuswap-Revelstoke Electoral District			$27,932,575.31

SKEENA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,353,551 13
Snow removal			1,524,259.18
Bridge maintenance			374,335.53
Ferry maintenance and operation- Usk Ferry			114,507.16

SKEENA ELECTORAL DISTRICT - continued

		$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS				
Roads:				
Day Labour				
Project	C-0147 - Minor Betterments, miscellaneous		50.87	
	C-0148 - Minor Betterments, miscellaneous		104,388.36	
	C-0150 - Minor Betterments, miscellaneous		161,198.25	
	C-1451 - Minor Betterments, miscellaneous		44,658.20	
	C-1944 - Minette Bay Road, Cordella Bridge replacement		7,570.00	
	C-1945 - Lakelse Lake Road, gravelling		21,990.25	
	C-1946 - Kalum Lake Road, Camp Creek to Cedar Junction, reconstruct for paving		5,281,552.34	
	C-1947 - Terrace Roads, curb and gutter, prepare for paving		500,000.00	
	C-1951 - Salmon River Road, reconstruct		209,982.59	
	C-1952 - Highway 16, Smithers area, improve alignment		124,864.63	
	C-1953 - Kitwancool Village Roads and Kitwancool Bridge approaches, prepare for paving		149,992.55	
	C-1954 - Eckman-Burnt Cabin Road, prepare for paving		179,999.97	
	C-1955 - Salmon River Road, clear and grub and prepare grade		54,999.91	
	C-1956 - Babine Lake Road, widen and upgrade		98,858.94	
	C-1957 - Smithers local area roads, prepare for paving (see also Omineca)		103,599.38	
	C-2500 - Highway 37, (Terrace-Kitimat), rip rap protection		77,115.00	
	C-2502 - Highway 16, Exchamsiks Flats, km95-97 (from Prince Rupert), miscellaneous paving		93,240.51	
	C-2503 - Highway 37 (Terrace-Kitimat), various sections, miscellaneous paving		141,992.54	
	C-2504 - Greenville Road, Greenville Bridge to Greenville reserve boundary, construction		499,894.00	
	D-1555 - Rest area upgrading		33,753.50	
	N-0390 - Guardrail installation		685.54	
	N-0391 - Guardrail installation		22,738.00	
	N-0392 - Guardrail installation		4,320.00	
	W-0363 - Fencing Schedule 2 Highways		4,030.98	7,921,476.31
Construction Branch:				
Project	C-0253 - Highway 16,(Yellowhead Highway) Kasiks-Backwater Creek, recoveries from Urban Transportation Assistance Program			1,188,736.98cr
Bridges and Ferry Landings:				
Day Labour				
Project	B-2273 - Douglas Creek Bridge, construct replacement		50,000.00	
	B-2501 - Goat Creek Bridge, Kalum Lake Road, construction		166,078.64	216,078.64

SKEENA ELECTORAL DISTRICT - continued

	$	$	$
Bridge Branch:			
Project B-1076 - Kasiks Overhead, Yellowhead Highway	1,019,470.33		
-Recoveries from Urban Transportation Assistance Program	849,764.23cr	169,706.10	
B-1383 - Slickenside Creek Bridge; Polymar Creek Bridge; Snowbound Creek Bridge, Yellowhead Highway 16		12,849.01	
B-1670 - Terrace-Prince Rupert Bridges: Ekumsekum Creek Bridge, Marigonish Creek Bridge, Antigonish Creek Bridge, Inver Creek Bridge, Aberdeen Creek Bridge, Highway 16		494,245.72	676,800.83
Paving Branch:			
Project S-1705 - Highway 37, Kitwancool-North (41.8km), Kitwancool accesses (7.7km)(see also Atlin)		6,219.87cr	
S-1707 - Highway 16, Kenny Street to Eby Street, storm sewer, curb and gutter and paving miscellaneous streets Thornhill area		555,876.30	
S-1721 - Yellowhead Highway 16, Backwater Creek - Kasiks Creek		994,874.88	
S-1765 - Highway 16 and miscellaneous Smithers roads(see also Omineca)		1,129,797.98	
S-1820 - Smithers area roads, asphalt concrete pavement supplied in place (see also Omineca)		128,331.80	2,802,661.09
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Carnaby Crossing to Kitsequeda Yellowhead Highway 16 west		36,931.76	
-East Kalum Lake Road		41,512.89	
-Highway 16 and Kathlyn Lake Road		3,178.41	
-Highway 16, D.L.4804 to Andesite Creek(Pollywog Creek)		36,087.06	
-Khyex River to Aberdeen Creek		49,053.11	
-Kitwanga-Meziadin Lake from Kitwanga to D.L.3401		427.68	
-Shames Lot (5621) Tyee		5,104.15	
-Smithers-Telkwa Sec.2 Region 4		438.55	
-Terrace bypass		1,044.20	
-Terrace to Nass River Road Cedar River to Tseax junction (see also Atlin)		54,876.55	228,654.36
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-E.Bdy., Lot 1878 to the W.Bdy. Lot 1903, Cassiar District, Cassiar Highway 37 (see also Atlin)		19,356.83	
-Neal Road, Explanatory plan to consolidate closed road with parts of District Lot 772, Range 5, Coast District		2,980.60	
-Reference Plan within part of District Lot 2168, Cassiar District		1,922.00	
-Subdivision of part of D.L.1194 and part of E1/2 of D.L.1195, Rge.5 Coast District, Babine Lake Road dedication		763.44	25,022.87

SKEENA ELECTORAL DISTRICT - continued

	$	$
Traffic Branch:		
Project E-2307 - Route 97-Penticton Channel Parkway-section 11 (Fairview Road to West Bench Drive) Penticton, signal and lighting installation		122,813.93
Property Services Branch:		
Rights-of-way and Property Purchases		
Project P-0113		
-Cedar River Road 105	3,727.00	
-Dahlie Road 145	20,073.00	
-Dogwood Avenue 192	3,217.61	
-Hazelton - Kitwanga Road	22,749.00	
-Highway right-of-way Yellowhead Highway 16, through C.N.R. D.L.863, Cassiar District	7,150.27	
-Hudson Bay Mountain Road 35	700.00	
-Kalum Lake Road 3	101,133.99	
-Kitwanga to Meziadin Lake Road	265.00	
-Roberts Road 157	1.00	
-Sundry expenses	5,428.87	164,445.74
Municipal Programs Branch:		
Amalgamation Grants		
Project O-0927 - New Hazelton, maintenance of annexed area		30,000.00
EMPLOYMENT DEVELOPMENT ACCOUNT		
Roads:		
Construction Branch:		
Project C-0253 - Yellowhead Highway 16, Kasiks River - Backwater Creek	644,709.06	
C-1723 - Cassiar Highway 37, Cranberry Crossing 1 to Derrick Creek, grading	7,974,697.49	8,619,406.55
Bridges and Ferry Landings:		
Bridge Branch:		
Project B-1381 - Kitwancool Bridge, Kitwancool access road	1,313,992.55	
B-1670 - Highway 16 Terrace-Prince Rupert Bridges, Ekumsekum Creek Bridge, Marigonish Creek Bridge Antigonish Creek Bridge, Inver Creek Bridge, Aberdeen Creek Bridge	830,867.95	
B-2432 - Canyon City Footbridge, grant to assist in upgrading	24,000.00	2,168,860.50
Paving Branch:		
Project S-1705 - Highway 37, Kitwancool - North (41.8km), Kitwancool accesses (7.7km) (see also Atlin)	2,165,392.89	
S-1707 - Highway 16, Kenny Street to Eby Street, storm sewer, curb and gutter and paving miscellaneous streets Thornhill area	2,065,514.23	
S-1721 - Yellowhead Highway 16, Backwater Creek - Kasiks Creek	914,680.22	
S-1763 - Kalum Lake Road	1,695,945.69	
S-1765 - Highway 16 and miscellaneous Smithers roads (see also Omineca)	713,254.78	7,554,787.81
Total, Skeena Electoral District		36,708,924.65

SOUTH PEACE RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,435,380.93
Snow removal			2,526,110.00
Bridge maintenance			263,373.25
Ferry maintenance and operation- Clayhurst Ferry			349,494.70
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour Project C-0142 - Minor Betterments,			
-Hot mix McQueen Road	80,000.00		
-Miscellaneous	365,417.78	445,417.78	
C-0871 - Northeast Coal Development Access Highway, Highway 97 to Tumbler Ridge, Fellers Heights Road, gravelling, grading and dust control		4,173,871.39	
C-2031 - Highway 97, Taylor, pavement preparation and truck lane		348,385.03	
C-2032 - East Pine Hill, construct truck lane		226,697.49	
C-2033 - Heritage Highway, Tumbler-Quintette, pavement preparation		489,113.12	
C-2034 - Kilkerran, pavement preparation		149,154.45	
C-2035 - Imperial access road, pavement preparation		70,706.33	
C-2036 - Mile 5 Road, pavement preparation		122,947.26	
C-2037 - Ski Hill Road, grade preparation		271,359.85	
C-2038 - Mile 17 Road, pavement preparation		199,799.08	
C-2039 - Pouce Coupe Streets, pavement preparation		58,287.75	
C-2040 - Old Hart Highway, pavement preparation		14,481.84	
C-2041 - Area "A" Roads (Pouce Coupe) shouldering, regravelling, pavement repair and culvert replacements		169,962.22	
C-2042 - Area "B" Roads (Alaska Highway), regravel and general improvements		147,588.60	
C-2043 - Area "C" Roads (Rolla) ditching, regravelling and brush control		88,224.23	
C-2044 - Area "D" Roads (Progress) gravelling		95,847.97	
C-2045 - Area "E" Roads (Chetwynd) regravelling and miscellaneous surface improvements		158,078.38	
C-2046 - Area "F" Roads (Mt.Lemoray) miscellaneous pavement repairs		14,633.00	
C-2047 - Area "G" Roads (Tumbler Ridge) including roads near Highways 2 and 97, regravelling and dust control		82,614.35	
C-2136 - Highway 29 and 97 junction, reconstruction		125,529.18	
C-2520 - Dawson Creek area, stockpile gravel		207,141.35	
C-2521 - Heritage Highway, clearing		220,238.66	

SOUTH PEACE RIVER ELECTORAL DISTRICT - continued

	$	$	$
Roads (continued):			
Day Labour			
Project D-0010 - Rest area upgrading		19,202.03	
N-0431 - Guardrail installation		41,459.75	
W-0358 - Fencing Schedule 2 Highways		49,657.38	7,990,398.47
Construction Branch:			
Project C-0282 - Highway 97, John Hart-Peace River Highway, D.L.8917-Garbitt Tunnel, reconstruction (see also Prince George North)		291,085.05	
C-0746 - Northeast Coal Development access highway, Upper Martin Creek to Gwillim Lake		9,904.75	
C-0747 - Northeast Coal Development access highway, Gwillim Lake to Meikle Creek		321,978.06	
C-1138 - Northeast Coal Development access highway, Meikle Creek to Bullmoose Flats		564,006.31	
C-4513 - Northeast Coal Development access highway, Highway 97 to Martin Creek		528,621.62	1,715,595.79
Bridges and Ferry Landings:			
Day Labour			
Project B-2265 - Wartenbee Bridge, construct replacement		35,969.79	
B-2266 - Resnick Bridge, multi-plate replacement		22,816.30	
B-2454 - Portable bridge construction, Dawson Creek		39,253.40	98,039.49
Bridge Branch:			
Project B-0975 - Northeast Coal Development access highway, Bullmoose Creek Bridge and Bullmoose Flats Bridge		660,396.58	
B-0977 - Northeast Coal Development access highway, Murray River Bridge		352,781.62	
B-1393 - Northeast Coal Development access highway, Twidwell Bend Bridge		432,975.94	1,446,154.14
Paving Branch:			
Project S-1739 - Dawson Creek area, miscellaneous roads		685,635.78	
S-1750 - Alaska Highway 97, North Kiskatinaw northward to Road 269, asphalt surfacing(see also North Peace River)		343,552.75	
S-1813 - Northeast Coal Development access highway, Chetwynd-Tumbler Ridge Highway, Gwillim Lake Park boundary - Bullmoose Creek		103.24	
S-1814 - Northeast Coal Development access highway, Chetwynd-Tumbler Ridge Highway, Bullmoose Creek-Babcock Plant		88.29	1,029,380.06
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Hart Highway 97 from Pine Pass to West Pine Bridge	164,511.70		
-Heritage Highway Surveys	60,270.40	224,782.10	
L-3507 - Northeast Coal Development access highway, Gwillim Lake to Tumbler Ridge, section 3-design		361.00	225,143.10

SOUTH PEACE RIVER ELECTORAL DISTRICT - continued

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Highway Safety Branch:			
Project C-0205 - General Safety Works, installation of two directional amber flashing lights at East Pine Bridge			2,022.44
Legal Surveys Office:			
Legal Surveys - Project L-0099 -Part D.L.3421, P.R.D., Zonnebeke Creek Road			450.00
Traffic Branch:			
Project E-1724 - Route 29/50th Street at Route 97, Chetwynd, signal and lighting installation		38,114.31	
E-2299 - Northeast Coal Development access highway, Heritage Highway (Chetwynd Highway) at 1 and 20 Roads, Tumbler Ridge, lighting installation		31,782.17	69,896.48
Property Services Branch:			
Rights-of-way and Property Purchases Project P-0113			
-Heritage Highway		7,210.51	
-John Hart Peace River Highway		5,276.00	12,486.51
EMPLOYMENT DEVELOPMENT ACCOUNT:			
Roads:			
Construction Branch:			
Project C-0282 - Highway 97, John Hart-Peace River Highway, D.L.8917-Garbitt Tunnel, reconstruction (see also Prince George North)		1,879,227.67	
C-0745 - Northeast Coal Development access highway, Martin Creek to Upper Martin Creek		2,770,070.75	
C-0746 - Northeast Coal Development access highway, Upper Martin Creek to Gwillim Lake		3,016,120.84	
C-0748 - Northeast Coal Development access highway. Bullmoose Creek to Tumbler Ridge West Sta.151+00-Sta.345+70		6,481,708.49	
C-0749 - Northeast Coal Development access highway, Bullmoose Creek to Tumbler Ridge East, construction Sta.345+70 - Sta.442+00		3,344,431.75	
C-1138 - Northeast Coal Development access highway, Meikle Creek to Bullmoose Flats		789,878.99	
C-2542 - Northeast Coal Development access highway, Wolverine Valley access road and bridges		108,591.89	18,390,030.38
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0975 - Northeast Coal Development access highway, Bullmoose Creek Bridge and Bullmoose Flats Bridge		575,796.00	
B-0978 - Northeast Coal Development access highway, Flatbed Creek Bridge and Wolverine River Bridge		1,137,528.16	1,713,324.16

SOUTH PEACE RIVER ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch:			
Project S-1303 - Northeast Coal Development access highway, junction of Highway 97 to Martin Creek section		1,930,159.82	
S-1739 - Dawson Creek area, miscellaneous roads		1,582,297.84	
S-1750 - Alaska Highway 97, North Kiskatinaw northward to Road 269, asphalt surfacing (see also North Peace River)		1,958,270.76	
S-1812 - Northeast Coal Development access highway, Chetwynd-Tumbler Ridge Highway, Martin Creek-Gwillim Lake Park boundary		2,990,633.99	
S-1813 - Northeast Coal Development access highway, Chetwynd-Tumbler Ridge Highway, Gwillim Lake Park boundary - Bullmoose Creek		3,225,220.02	
S-1814 - Northeast Coal Development access highway, Chetwynd-Tumbler Ridge Highway, Bullmoose Creek-Babcock Plant		1,982,402.69	13,668,985.12
Total, South Peace River Electoral District			$52,936,265.02

SURREY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,545,885.99
Snow removal			109,415.06
Bridge maintenance			197,688.21
Ferry maintenance and operation-Barnston Island Ferry			437,860.32
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments, -Miscellaneous	27,712.01		
-Surrey	59,328.24	87,040.25	
C-0122 - Minor Betterments, miscellaneous		40,000.00	
C-1434 - Minor Betterments, miscellaneous		19,995.09	
C-2105 - Highway 15, 16th Avenue-32nd. Avenue, widen for truck lane		375,000.00	
C-2483 - Fraser Highway from King George East, pave shoulder		150,959.00	
C-2484 - Highway 1 eastbound, Port Mann weigh scale, widening and grade preparation		50,000.00	
N-0370 - Guardrail installation		12,000.00	
W-0793 - Fencing Schedule 2 Highways		9,000.00	743,994.34

SURREY ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-2391 - Pattullo Bridge, rail repair			50,000.00
Bridge Branch:			
Project B-1420 - Pattullo Bridge, south approach, falsework for bearing replacement Contract 1 (see also New Westminster)			188,924.30
Paving Branch:			
Project S-1738 - Lower Mainland miscellaneous roads in New Westminster Highway District (see also Delta and Richmond)			695,538.38
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-King George Highway from Whitehouse corner		323.00	
-Nicomekl River - 64th Avenue on Highway 99A		2,391.76	
-Scott Road from Highway 1 to Highway 10 (see also New Westminster)		1,321.11	
-South end of Pattullo Bridge		868.08	
-Minor road surveys		1,056.00	
-Whitehouse Corner-152nd.Street 4 laning (Fraser Highway)		17,594.98	23,554.93
Traffic Branch:			
Project E-1403 - Route 99A at 152nd. Surrey, signal and lighting revision		15,522.16	
E-1637 - Route 10 at Route 99A, Surrey, signal and lighting replacement		23,466.08	
E-1769 - Fraser River Crossing (Annacis Island), Annacis Island Bridge, lighting installation (see also New Westminster)		9,172.76	
E-2341 - Route 99, U.S.border to 5 road, directional signals installation (see also Delta and Richmond)		7,109.75	
E-2368 - Route 1A at 105A Street Surrey, traffic signal revision		25,192.80	
E-2372 - Route 1A at 64th Street, Surrey, traffic signal and lighting revision		27,243.15	107,706.70
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Fraser Highway and 68th Avenue		13,312.00	
-King George Highway, Fraser Avenue to 96th Avenue		8,500.00	21,812.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Paving Branch:			
Project S-1738 - Lower Mainland miscellaneous roads in New Westminster Highway District (see also Delta and Richmond)			46,103.97
Total, Surrey Electoral District			$4,168,484.20

VANCOUVER CENTRE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			75,165.63
Snow removal			9,338.84
Bridge Maintenance			2,932.58
Total, Vancouver Centre Electoral District			$87,437.05

VANCOUVER EAST ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			268,679.60
Snow removal			15,709.01
Bridge maintenance			12,006.60
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Planning and Engineering Services Highway Design and Surveys Branch: Surveys Generally - Project L-0101 -Cassiar Street			20,384.20
Total, Vancouver East Electoral District			$316,779.41

VANCOUVER-POINT GREY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			232,838.18
Snow removal			12,229.22
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads: Day Labour Project C-0119 - Minor Betterments, S. W. Marine Drive			59,345.94
Planning and Engineering Services Traffic Branch: Project E-1453 - 16th Avenue at Wesbrook Mall, U.B.C. Endowment Lands, traffic signal installation			970.00
Total, Vancouver-Point Grey Electoral District			$305,383.34

VANCOUVER SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			77,528.41
Snow removal			1,052.85
Bridge maintenance			14,488.25
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0119 - Minor Betterments miscellaneous			18,725.83
Total, Vancouver South Electoral District			$111,795.34

VICTORIA ELECTORAL DISTRICT

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0122 - Minor Betterments miscellaneous			8,390.00
Total, Victoria Electoral District			$8,390.00

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,367,238.33
Snow removal			340,867.66
Bridge maintenance			108,505.46
Ferry maintenance and operation-Woodfibre Ferry			750,069.98
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0117 - Minor Betterments, miscellaneous		256,596.20	
C-1434 - Minor Betterments, miscellaneous		25,000.00	
C-2091 - Garibaldi Highway 99 (Squamish Highway), Horseshoe Bay north, construct and new alignment		298,165.37	
C-2092 - Bowen Island Roads, miscellaneous improvements		150,000.00	
C-2093 - Garibaldi Highway 99 (Squamish Highway), Furry Creek, pave shoulder, curb and guardrail		310,000.00	

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT - Continued

	$	$	$
Roads: (continued)			
Day Labour			
Project C-2094 - Garibaldi Highway 99 (Squamish Highway), Whistler to Pemberton (Green Lake section), widen and drainage improvements		386,148.15	
C-2465 - Garibaldi Highway 99 (Squamish Highway), north, patch paving		119,830.00	
C-2466 - Squamish Valley Road, gravelling		74,211.25	
C-2467 - Lillooet Lake Road, gravelling		50,000.00	
C-2468 - Duffey Lake Road, gravelling		27,878.38	
C-2469 - Portage Road, sight distance improvement and stump removal		29,809.25	
C-2470 - Garibaldi Highway 99 (Squamish Highway), (Culliton Creek), rock outcrop removal		54,947.26	
C-2472 - Diamond Head Road, gravelling and drainage improvements		40,000.00	
D-1552 - Rest area upgrading		3,168.58	
N-0368 - Guardrail installation		65,000.00	1,890,754.44
Construction Branch:			
Project C-0252 - Garibaldi Highway 99 (Squamish Highway), Cheakamus Canyon section, reconstruction		8,296.93	
C-1817 - Garibaldi Highway 99 (Squamish Highway), Brohm Ridge, construction		296,785.47	
C-2344 - Garibaldi Highway 99 (Squamish Highway), rockscaling program		350,744.33	655,826.73
Senior Avalanche Co-ordinator:			
Project M-2340 - Garibaldi Highway 99 (Squamish Highway), weather stations			124,402.78
Bridges and Ferry Landings:			
Day Labour			
Project B-2185 - Garibaldi Highway 99, (Squamish Highway), Magnesia Creek Bridge, prepare, place and solidify rip rap		19,400.00	
B-2186 - Deeks Creek Bridge, remove rock outcroppings under bridge		13,600.00	
B-2231 - Birkenhead River Bridge, install additional Bailey		78,009.04	
B-2424 - "N" Creek (Loggers) Bridge, modifications to piers and bents		78,626.95	189,635.99
Bridge Branch:			
Project B-1096 - Garibaldi Highway 99 (Squamish Highway), Culliton Creek Bridge		1,088,904.70	
B-1145 - Nineteen Mile Creek Bridge, Valley Drive; and Cheakamus River Bridge, Squamish Valley Road	959,785.74		
-Recovery from Ministry of Environment	110,512.92cr	849,272.82	
B-1147 - Garibaldi Highway 99 (Squamish Highway), "M" Creek Bridge		16,942.33	

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT - Continued

	$	$	$
Bridge Branch: (continued)			
Project B-2452 - Garibaldi Highway 99 (Squamish Highway), Montizambert Creek Bridge		2,362.96	
B-2456 - Garibaldi Highway 99 (Squamish Highway), bridge insurance premiums		78,845.00	2,036,327.81
Ferry Landings:			
Project B-2462 - Woodfibre and Darrell Bay Ferry terminals, wing wall and floating lead repairs			166,966.62
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-2336 - Garibaldi Highway 99(Squamish Highway), expanded rock scaling program			128,797.83
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Design proposals for debris torrent control facilities-Harvey, Alberta, Magnesia, and Charles Creek		586,040.04	
-Garibaldi access, Vancouver to Whistler Mountain alternates (see also North Vancouver-Capilano)		12,266.06	
-Garibaldi Highway 99(Squamish Highway), Brohm Lake to Whistler junction		43,840.40	
-Garibaldi Highway 99(Squamish Highway), from Squamish to Cheekye		310.74	
-Garibaldi Highway 99(Squamish Highway), Whistler four laning West Road-Mons Highway		1,973.79	
-Horseshoe Bay to Newman Creek		207,340.69	
-Horseshoe Bay-Squamish		30,195.14	
-"M" Creek to Porteau Cove		18,066.55	
-Minor road surveys		7,211.75	
-Mt.Currie - Duffey Lake		2,283.00	
-Newman Creek to "M" Creek		372,653.04	
-Port Mellon - Squamish		44.04	
-Porteau Cove to Brittania		88,965.82	
-Urban design from mine museum to Brittania Creek		9.18	1,371,200.24
Highway Safety Branch:			
Project C-0205 - General Safety Works, Highway 99, curve and bridge delineators and guardrail reflectors			35,515.89
Traffic Branch:			
Project E-1646 - Garibaldi Highway 99 (Squamish Highway), Horseshoe Bay to Squamish, bridge lighting installations		4,763.00	
E-1691 - Garibaldi Highway 99 (Squamish Highway), at Porteau Park access, lighting installation		10,058.32	14,821.32
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Garibaldi Highway 99 (Squamish Highway), Britannia Beach		200,400.00	
-Garibaldi Highway 99 (Squamish Highway), Lions Bay		1,251,062.30	
-Garibaldi Highway 99 (Squamish Highway), Horseshoe Bay-Squamish, Furry Creek		39,956.00	

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT - Continued

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Garibaldi Highway 99 (Squamish Highway), "M" Creek Bridge approaches, Horseshoe Bay to Squamish		8,122.74	
-Pemberton-Lillooet River Bridge site and approaches		20,077.76	
-Reid Road		23,000.00	
-Squamish Valley Road, Cheakamus River Bridge and approaches at Cheekye		1,983.75	1,544,602.55
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-1817 - Garibaldi Highway 99 (Squamish Highway), Brohm Ridge, construction			209,111.74
Total, West Vancouver-Howe Sound Electoral District			$12,934,645.37

YALE-LILLOOET ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			8,161,411.47
Snow removal			2,364,448.70
Bridge maintenance			488,556.42
Ferry maintenance and operation-			
Lytton Ferry		158,208.80	
North Bend Ferry		318,994.35	477,203.15
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0120 - Minor Betterments, miscellaneous		251,940.00	
C-0123 - Minor Betterments, miscellaneous		14,567.90	
C-0126 - Minor Betterments, miscellaneous		9,360.63	
C-0127 - Minor Betterments,			
-Coalmont Bridge approach	71,869.97		
-Miscellaneous	113,878.83	185,748.80	
C-0128 - Minor Betterments,			
-Ashcroft area, miscellaneous	75,906.27		
-Goldbridge area, miscellaneous	44,628.64		
-Lillooet area, miscellaneous	65,116.59	185,651.50	
C-0270 - Gunn Lake Road, construction and landscape		53,433.97	
C-0472 - Princeton area, miscellaneous roads, upgrading		80,000.00	
C-0475 - Princeton-Summerland Road, construction		480,000.00	
C-0476 - Meadow Creek Road, (Kamloops to Logan Lake)construction		32,626.34	
C-0824 - Highland Valley Road, construction		199,908.70	
C-0825 - Lillooet Goldbridge Road, gravelling		228,392.37	

YALE-LILLOOET ELECTORAL DISTRICT - continued

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Roads: (continued)				
Day Labour				
Project	C-1474 - Hop Farm, Lillooet area, paving		39,799.45	
	C-1776 - Highway 3, Hope to Princeton, extra lanes		801,748.30	
	C-2112 - Othello Road, ditch, shoulder, recap and gravel		120,000.00	
	C-2116 - Highways 1 and 7, various sections, clearing and brushing (see also Chilliwack)		80,000.00	
	C-2119 - Highway 3, eastbound from Highway 1 intersection recap		20,000.00	
	C-2120 - Highway 3, 17 Mile, recap		40,000.00	
	C-2127 - North Bend area roads, regravel		20,000.00	
	C-2128 - Ainslie Road, regravel		35,620.00	
	C-2129 - Kawkawa Lake area roads, regravel		20,000.00	
	C-2212 - Trans Canada Highway 1, C.P.R. at Shaw Springs, install binwall		80,809.89	
	C-2213 - Mamit Lake Road at Indian Reserve, widening		149,965.47	
	C-2214 - Highway 12, 7 Mile Bluffs, install binwall		71,673.85	
	C-2215 - Highway 8, 14 Mile railroad crossing, realign		56,552.43	
	C-2216 - Highway 8, Spences Bridge East, rock work		509,171.49	
	C-2217 - Coalmont Road, install binwall		99,571.59	
	C-2218 - Botanie Creek Road, reconstruction		99,753.66	
	C-2219 - Coldwater Road, reconstruction		66,016.51	
	C-2220 - Lillooet-Station Hill intersection, construct		108,181.88	
	C-2222 - Texas Creek Road, reconstruction		281,061.85	
	C-2458 - Trans Canada Highway, Lytton Road slope stabilization		27,565.50	
	C-2464 - Trans Canada Highway 1, Ashcroft Ranch (Boston Flats), machinery underpass construction		73,342.29	
	C-2488 - Highway 1, American Creek to Gordon Creek, ditching		50,000.00	
	C-2489 - Airport and Yale Roads, gravel and surface with crush		75,000.00	
	C-2497 - Union Bar Road at Hope, clearing and grubbing		15,000.00	
	C-2558 - Douglas Lake Road, construction		124,432.77	
	C-2560 - Potatosillihee Bridge, construct approaches		74,925.00	
	C-2561 - Lillooet area, miscellaneous roads (Barnes Lake Road; 14 mile frontage and Drinkwater Road), gravelling		61,924.51	
	C-2562 - Blackwater-Lower Hat Creek, widening		26,371.96	
	C-2563 - Highway 12B, Ashcroft area, rockwork		26,551.11	
	C-2564 - Highway 40, Goldbridge area, rockwork		86,900.64	
	C-4170 - Duffey Lake Road, gravelling and realign		116,470.84	
	D-1552 - Rest area upgrading		49,641.08	
	D-1553 - Rest area upgrading		1,722.48	
	N-0371 - Guardrail installation		40,000.00	
	N-0377 - Guardrail installation		6,450.00	

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Roads: (continued)			
Day Labour			
Project N-0378 - Guardrail installation		52,676.25	
N-0379 - Guardrail installation		49,276.20	
W-0344 - Fencing Schedule 2 Highways		25,252.99	
W-0348 - Fencing Schedule 2 Highways		37,993.18	
W-0349 - Fencing Schedule 2 Highways		76,929.13	
W-0350 - Fencing Schedule 2 Highways		114,722.29	5,614,704.80
Construction Branch:			
Project C-0476 - Meadow Creek Road, Kamloops to Logan Lake construction		716,840.50	
C-0579 - Coquihalla Highway, Hope-Merritt Section, Dry Gulch-Mine Creek		444,621.24	
C-4477 - Southern Trans Provincial Highway 3, Nicolum Creek-West Boundary Manning Park, construction		655,588.23	1,817,049.97
Bridges and Ferry Landings:			
Day Labour			
Project B-2294 - Potatosillihce Bridge, reconstruct box beam		124,983.82	
B-2295 - Blowdown Creek Bridge, reconstruct box beam		49,999.60	174,983.42
Bridge Branch:			
Project B-0609 - Eleven Mile Creek Bridge and Nicolum Creek Bridge, Southern Trans Provincial Highway 3, 4 laning		7,800.00	
B-1358 - Bonaparte River Bridge, Trans Canada Highway, improvements		10,251.43	
B-1794 - Texas Creek Bridge, four laning, Trans Canada Highway		273,829.40	
B-1803 - Boston Bar Bridge, north bend access road, test pile		370,710.33	662,591.16
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals,			
-Douglas Lake Road - Peter Hope Road and Douglas Lake Road-Kamloops District boundary	832.00		
-Highway 5, Aspen Grove to Merritt	167,120.72		
-Hope slide area	503,465.20	671,417.92	
S-0085 - Miscellaneous Drum Mix Paving,			
-Highland Valley Road - Meadows Road Kamloops district boundary to Logan Lake	480,652.53		
-Highway 5, top of Hamilton Hill to Aspen Grove Collettville area subdivision roads, Lower Nicola subdivision roads and Lower Nicola Bridge eastward	1,434,740.30		
-Lillooet 12 Crown Lake Road	101.76		
-Loon Lake Road	461,846.97		
-Princeton - Summerland Road	887,980.34	3,265,321.90	
S-0652 - Schedule I: Evergreen Drive and Cheam Avenue, Agassiz Schedule II: Highway 9, north of Agassiz-Rosedale Bridge Schedule III: Highway 1 and miscellaneous Streets in Yale (see also Chilliwack)		7,358.38	
S-1549 - Highway 1, Thompson Canyon to Spences Bridge		22,799.51	

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Paving Branch: (continued)			
Project S-1687 - Trans Canada 1, intermittent sections between Lake of the Woods and Jackass Mountain		1,084,495.36	
S-1729 - Highways 1 and 97 in Cache Creek, storm sewer, curb and gutter and paving		113,852.02	5,165,245.07
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-4 Mile Corner-Nicolum Creek, Highway 3		1,726.00	
-Highway 1, south of Yale		4,844.00	
-Highway 3 Rhododendron Flats		18,348.73	
-Highway 5, Merritt - Kamloops		60,274.88	
-Hope-Merritt (Coquihalla)		194,351.46	
-Kamloops - Highland Valley		5,397.25	
-Merritt to Kamloops		79,811.11	
-Minor road surveys		47,767.62	
-North Bend Bridge site-Boston Bar		20,796.05	
-North approach Hope Bridge		9,114.64	
-Route 8, Merritt - Spences Bridge		9,112.78	
-Southern Trans Provincial Highway 3, 95-101km		8,619.00	
-Trans Canada Highway 1,Oregon Jack-North Ashcroft junction		1,201.00	
-Trans Canada Highway and Cariboo Cache Creek junction		1,999.62	
-Trans Canada Highway, Flood-Haig (via Hope)		24,662.02	
-West Boundary Manning Park to Nineteen Mile Creek		691.70	488,717.86
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-D.L.2410 to D.L.6485 L.D., Gunn Lake West Road 90		10,130.15	
-Highway 43 Lindley Creek Road from D.L.177, to E.Bdy, remainder S.W.1/4, Section 16, Township 91, K.D.Y.D.		12,980.00	
-Highway through Lot A, D.L.102, Gp.2, K.D.Y.D., Plan 8571, Cariboo Highway widening, Cache Creek		675.00	
-Lillooet-Cache Creek Highway 12B statutory right-of-way for Highway through L 2661 L.D.		1,636.00	
-Lillooet-Cache Creek Highway 12B through D.L.'s 536 and 888 Lillooet District		8,725.00	
-Lillooet-Cache Creek Highway 12B, through part of Lot A, D.L.94 and E.1/2, Sec.21, Tp.22, R.25, W6M, K.D.Y.D.		1,045.30	
-Old Cariboo Highway through Lot 1, Plan 6100 and Lot 1, Plan 7412, D.L.104, Gp2, K.D.Y.D.		990.00	
-Parts of D.L.3106 AND 3107, L.D. 26-40 Lillooet-Pioneer and 26-163 Yalakom		3,690.00	
-Plan of Statutory right-of-way for Highway through part of Blocks 4 and 6, Plan 4955, Tp.6, R.26, W6M Y.D.Y.D.		2,076.28	
-Through Lot B, Plan B-1111, remainder of D.L.1022, and fractional S.E.1/4 Section 1, Township 14, R.23, W6M, K.D.Y.D., Sunshine Valley Road 76		5,241.01	
-Trans Canada Highway, D.L. 103, Gp.2, K.D.Y.D., to 105 Mile Post Indian Reserve		13,762.35	60,951.09

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Traffic Branch:			
Project E-1818 - Route 1 at Route 97, Cache Creek, signal and lighting installation		102,746.87	
E-2366 - Route 12 (Nugget Road) at Station Hill Road, Route 12 and Nugget Arterial, Lillooet		18,942.10	
E-2389 - Route 3 (Hope-Princeton) at Sumallo Lodge, Sunshine Valley and Hope Slide view, lighting installations		13,868.80	135,557.77
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0113			
-Ashcroft - Cache Creek Highway		1.00	
-Bristol Slough Road		2.00	
-Cedar Creek Road 22		4,550.00	
-Coquihalla Highway, Hope-Merritt Section, Dry Gulch to Mine Creek		1,443.00	
-Douglas Lake Road 25 through Chapperon Indian Reserve 5		3,411.00	
-Gravel pits		53,825.00	
-Gunn Lake Road		82,330.00	
-Gunn Lake West Road 90		2,015.27	
-Highway 12A		1.00	
-Kopchitchin Indian Reserve 2		14,500.00	
-Lillooet - Cache Creek Highway 12B		99,720.00	
-Lillooet Bridge approach - Bralorne Road		2,918.46	
-Lytton-Lillooet Highway 12A		19,800.00	
-Mamit Lake Road		3,497.00	
-Nicolum Creek - west boundary, Manning Park		11,182.00	
-Trans Canada Highway, Wahleach Power Station-Jones Creek		454.06	299,649.79
Municipal Programs Branch:			
Amalgamation Grants			
Project O-2415 - Village of Cache Creek, revisions to water system			40,000.00
HYDRO DEVELOPMENT - HIGHWAY CONSTRUCTION			
Bridges:			
Bridge Branch:			
Project B-2347 - Boston Bar Bridge, Boston Bar to North Bend Access, removal, supply and erection of steel work			171,903.00
EMPLOYMENT DEVELOPMENT ACCOUNT			
Roads:			
Construction Branch:			
Project C-0476 - Meadow Creek Road, Kamloops to Logan Lake construction		1,507,220.12	
C-0579 - Coquihalla Highway, Hope-Merritt Section, Dry Gulch-Mine Creek		5,252,739.44	
C-2486 - Trans Canada Highway 1, junction of Highway 9 to Wahleach Power Station		80,936.96	6,840,896.52

YALE-LILLOOET ELECTORAL DISTRICT - continued

	$	$	$
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1358 - Bonaparte River Bridge, Trans Canada Highway, improvements		534,685.07	
B-2347 - Boston Bar Bridge, Boston Bar to North Bend Access,			
-Removal, supply and erection of steelwork	1,151,147.70		
-Substructure	1,617,062.22	2,768,209.92	3,302,894.99
Paving Branch:			
Project S-1549 - Highway 1, Thompson Canyon to Spences Bridge		1,073,159.13	
S-1729 - Highways 1 and 97 in Cache Creek, storm sewer, curb and gutter and paving		961,985.98	
S-2327 - Highway 3, Rhododendron Flats		123,329.95	2,158,475.06
Total, Yale-Lillooet Electoral District			$38,425,240.24

REPORT OF THE DIRECTOR OF AIR SERVICES

P.S. Perry

The Air Services Branch which operated with a fleet of four Cessna Citation aircraft and two Beechcraft A-200 aircraft, provided air ambulance and transportation services for the Provincial Government Ministries in the 1983/84 fiscal year. The total flying time for the fiscal year was 5,082.3 hours.

The prime requirements was the air ambulance service which, in the fiscal year logged a total of 3,185.8 flight hours. This amounted to a total of 1,264 flights transporting 1,970 patients. The air ambulance role accounted for 65.24% of the total flying hours for the fiscal year.

The transportation role logged 1,459.1 flying hours and carried a total of 6,025 passengers. The scheduled flight service between Victoria/Vancouver/Victoria remained at ten round trips per week with an additional late evening flight added as required when the House is in session. The scheduled flight service operated with an average load factor of 43.7%.

Charge-back recoveries for transportation flights totalled $280,279 for the fiscal year which reflects a continued curtailment of travel to conform with the Provincial Government's restraint program.

The issuance of travel warrants and the statistical reporting of them was discontinued on April 1, 1983. At the same time the travel recording centre became known as the Air Services Reservations department responsible for handling reservations for Air Services scheduled flights and for non-scheduled flights for other than Cabinet Ministers. The staff of four was reduced to three on March 7, 1983 and subsequently reduced to two on August 16, 1983.

The reservations department was relocated from 1250 Quadra Street in Victoria to #1 Hangar, Victoria Airport in November, 1983. On February 1, 1984, the Reservations Department commenced reserving non-scheduled flights for Cabinet Ministers (previously handled by dispatch), whereby all reservations functions for the Air Services aircraft are now handled by the Reservations Department.

Aircraft Flying Hours

Beechcraft (2)	1,359.1 hours
Citation (4)	3,615.7 hours
Simulator (1)	107.5 hours

Air Ambulance Flights

Number of flights	1,264
Number of patients	1,970
Flight time	3,315.8 hours
Mileage	724,310

Overall Operating Statistics

Total aircraft flying hours	5,082.3
Total passengers hours	1,459.1
Total passengers carried	6,025

Breakdown of Passengers Carried

Schedule flights	4,003
Non-scheduled flights	2,022

REPORT OF THE DIRECTOR OF PROPERTY SERVICES

A.C. Brown

Property acquisitions showed a marked increase in settled claims over the previous year.

The Branch settled 958 claims with a further 1,357 in process of negotiations.

Expenditures on acquisitions for highway right of way and other properties required by the Ministry totalled $29,374,730.77.

A total of 879 gazettes establishing rights of way were processed by publication of notice in the British Columbia Gazette and a total of 74 closures were made by similar procedure.

Two claims were settled by arbitration.

Much research work is being done in determining road status in Indian Reserves and through many private as well as Crown Lands.

Surplus lands have been disposed of as follows:

65 parcels transferred to Lands, Parks and Housing
17 parcels transferred to Municipalities
59 parcels of closed road transferred.

GAZETTES

Area	Establishing	Closing
REGION 1		
Coquitlam-Moody	5	
Burnaby-Edmonds	2	
Central Fraser Valley	5	
Chilliwack	9	
Delta	8	1
Dewdney	17	2
Langley	4	
New Westminster	51	
North Vancouver-Seymour	10	1
Richmond	11	1
Surrey	4	
West Vancouver-Howe Sound	9	2
Mackenzie	8	1
Yale-Lillooet		1
Maillardville-Coquitlam		
REGION 1 TOTAL	143	10
REGION 2		
Boundary-Similkameen	20	5
Cariboo	13	1
Kamloops	30	1
Okanagan North	20	3
Shuswap-Revelstoke	17	4
Okanagan South	60	7
Yale-Lillooet	21	4
REGION 2 TOTAL	181	25
REGION 3		
Boundary-Similkameen	9	5
Columbia River	24	2
Kootenay	27	4
Nelson-Creston	43	10
Rossland-Trail	11	5
Shuswap-Revelstoke	17	
Okanagan North	2	
REGION 3 TOTAL	133	26

GAZETTES - Continued

Area	Establishing	Closing
REGION 4		
Cariboo	88	15
North Peace River	29	2
Omineca	9	2
Prince George North	38	5
Prince George South	43	5
South Peace River	17	
Mackenzie	10	
Peace River North	2	
Kamloops	1	
REGION 4 TOTAL	237	29
REGION 5		
Atlin	4	2
Prince Rupert	4	
Skeena	20	1
Omineca	35	2
REGION 5 TOTAL	63	5
REGION 6		
Alberni	3	1
Comox	72	1
Cowichan-Malahat	3	
Nanaimo	13	1
Saanich & The Islands	12	2
Victoria	3	1
North Island	6	2
Esquimalt-Port Renfrew	9	
Cariboo	1	
REGION 6 TOTAL	122	8
TOTAL FOR ALL REGIONS	879	103

TRANSFERS TO LANDS, PARKS AND HOUSING (PARCELS)

Region 1	16
Region 2	8
Region 3	26
Region 4	6
Region 5	0
Region 6	9

TRANSFERS TO MUNICIPALITIES (PARCELS)

West Vancouver	1
Matsqui	9
City of Nanaimo	2
Penticton	5

TRANSFERS/SALES OF CLOSED ROAD ALLOWANCES (BY O.I.C.)

Region 1	3
Region 2	15
Region 3	16
Region 4	12
Region 5	7
Region 6	6

REPORT OF THE MANAGER OF BUILDING SERVICES

D. Gray, M.C.I.Q.S.

Due to continuing financial restraints, the five-year plan for renewal of yards and buildings was again curtailed with the result that progress on upgrading and replacement of Ministry facilities has been slowed.

The following projects were designed, tendered and supervised completely by the staff of Building Services Branch:

- New weight scale station facility, Sparwood
- Renovation, weigh scale station, George Massey Tunnel
- New deck and pit, and renovations, weigh scale station, Prince George South
- New deck, weigh scale station, Kaleden
- Water system, rest area, Cold Road, Abbotsford
- Renovations, new pit and deck and services, weigh scale station, Kamloops North
- Renovations, weigh scale station, Pacific Highway

The major project completed during the year was the Regional garage in the new yard at Prince George, which, with some temporary accommodation, enabled the Ministry to relinquish the old, crowded and inadequate facilities at the First Avenue yard.

This garage is the largest and most comprehensive maintenance facility ever constructed for the Ministry. It features a large workshop equipped with an efficient vehicle exhaust system, a bodyshop, paint bay with up-to-date mechanical design and safety features, welding shop, stock-rooms, wash-down and lubrication bays, offices and meeting rooms.

The preliminary design and detailed functional programming for this most successful facility was carried out by the staff of Building Services, in complete co-operation with the staff of the Prince George Region and District.

The other major project was the completion of the new yard and garage at Tumbler Ridge. In addition, the former Forestry yard at Cultus Lake was acquired and adapted as a Highways yard to replace the borrowed village facility.

The Branch was successful in planning and acquiring very acceptable new District Highways offices at Dease Lake, McBride and New Denver, as well as modernizing the District office at Fernie.

Due to a change in their operations, twenty new Motor Licence offices were created around the Province, with the necessary building selection and space planning being carried out by Building Services staff, including cabling and other requirements for the Motor Vehicle Department computer system.

As well as the major projects described above, 185 improvement projects of varying size were planned, priced and carried out, including yard lighting and fencing, larger diesel storage tanks, many additions and renovations. Of special interest was the introduction of a computerized system at the fuel pump in selected areas for the control of fuel dispensing.

The computer system for space inventory control was extended into the areas of budgets and accounting.

REPORT OF THE SENIOR INFORMATION OFFICER

R.J. Baines

The Information Office consists of the Senior Information Officer, one Public Information Officer and two full-time secretaries.

During the 1983/84 fiscal year information personnel wrote and arranged for the distribution of 310 news releases, some to the local media in particular regions of the province, others were passed to the Press Gallery and several were sent out on the government core list to all media in the province.

Special assignments carried out included arrangements for news conferences on the Squamish Highway and Annacis Crossing.

Other duties included coordinating a $115,000 advertising program for "back to school" safety campaign, a special winter "snow tire" campaign, and a number of newspaper ads for road and bridge closures, official openings and other public information messages.

The office handled an average of 90 telephone calls a week from the public, other ministries and the media.

Assistance was given the Ministry of Tourism in the production of the Provincial Government road map by obtaining information from all highway districts in the province and forwarding suggested changes to the Ministry of Tourism for incorporation into the new map. This is an annual function to keep the map up to date.

In addition, staff edited and produced the annual report, as well as the Highways Branch Statistical Report, gave advice on pamphlets, updated directories and answered correspondence directed to the Ministry and the Minister.

REPORT OF THE CONTRACT DOCUMENTS OFFICER

R.A. Fisher

The 1983/84 fiscal year has been a very productive year in that 159 formal contracts have been advertised with only four remaining to be awarded. Of this total, there were 28 grade construction projects, 38 paving projects, 39 bridge construction projects, 35 gravel crushing projects, 13 landscaping projects including annual maintenance, seven cold mix asphalt in stockpile, and one weigh scale construction at Sparwood.

All of these projects were widely spaced across the Province and included completion of the Northeast Coal Development Access Route.

Projects of special interest were the main span of the Annacis Island crossing and the movable swing bridge of the Annacis Channel crossing both over the Fraser River. The former required the distribution of over 300 sets of plans and specifications to Contractors and other interested parties not only in Canada but across the United States and even as far afield as West Germany resulting in a total of eight bids being submitted ranging from 45.7 million to 56.8 million dollars for a steel structure. Six of the eight bids were joint ventures. P.C.L. Construction Ltd. of Richmond, B.C. in a joint venture with two American construction firms, Paschen Contractors of Chicago and John B. Pike and Son Inc. of Rochester, New York submitted the lowest bid for the 465 metre main span.

The movable swing bridge over the Annacis Channel of the Fraser River project had 14 bids submitted, the low bid being that of Sceptre, Riedel, Dawson Construction Ltd. of Richmond, B.C., a newly formed Company.

The general economical status of the Province has been reflected in the fact that more Contractors are taking out documentation for Highway projects and the tenders submitted indicate close bidding on all price ranges of the various types of projects advertised.

Ministry Ferry Terminal construction are now mainly informal contracts handled by the Highway Districts, whereas B.C. Ferry Terminal construction are now entirely the responsibility of the B.C. Ferry Corporation.

Production of the Print Shop relating to offset printing has remained consistent with previous years production. However, controls imposed by the Provincial Secretary through the Queens Printer will be reflected in next years report.

Diazo plan printing has increased due mainly to the Annacis Highway proposal which will extend well into the next fiscal year.

CONTRACT STATISTICS

SUMMARY OF ELECTORAL DISTRICTS OF GRADING' PAVING, BRIDGE, FERRY LANDING, FERRY, CRUSHED GRAVEL, AND MISCELLANEOUS CONTRACT PROJECTS COMPLETED OR IN PROGRESS

Electoral District			Project
Alberni	Gravel Crushing:	M-1832-0020	Crushed Granular Aggregate in Stockpile Bainbridge Pit No. P6385, Port Alberni Highway District
Atlin	Grading:	C-1723	Construction of Cranberry Crossing No. 1 to Derrick Creek, Cassiar Highway 37 (11.53 miles) (18.55 km)
	Paving:	S-1705	Asphalt Surfacing 1983-84, A. Kitwancool North Highway 37 (41.8 km) B. Kitwancool Access and Streets (5.4 km) (also see Skeena)
		S-1752	Asphalt Surfacing 1983-84, Nass River to Hanna Creek Highway 37 (15.0 km) Meziadin to Surprise Creek, Stewart-Meziadin Highway (12.6 km)
	Bridge:	B-1102-2	Greenville Bridge No. 2735, Greenville Access Road. Contract No. 2, Steelwork and Deck
		B-1402	Surprise Creek Bridge No. 2150, Cullen Creek Bridge No. 7623, Stewart-Cassiar Highway 37A. Contract No. 1 - General
		B-1706	Cottonwood River Bridge No. 2587, Cassiar Highway 37. Contract No. 1 - General
		B-1715	Bear River Bridge No. 2 - No. 7620, Bitter Creek Bridge No. 554, Stewart-Cassiar Highway 37A. Contract No. 1 - General
Boundary-Similkameen	Grading:	C-1744	Paving, Curb and Gutter, Storm Drainage, Penticton Channel Parkway, Stage II, City of Penticton, Highway 97, Sta. 4+540.606 to Sta. 7+690 (3.15 km)
	Paving:	S-1741	Asphalt Surfacing 1983-84. North Fork Road (Grand Forks) and Miscellaneous Junctions on Highway 3 (18.0 km)
		S-0084-2903	Asphalt Surfacing 1983-84. Gravel Seal Coat Aggregate in Stockpile for Highway 23 and Big White Road (also see Okanagan South)
	Bridge:	B-2395	Penticton Channel Parkway Railway Underpass No. 2470, Penticton Highway 97. Contract No. 1 - General
	Gravel Crushing:	M-1795-0001	Asphalt Cold Mix in Stockpile. Auger, G.N. Pit and Rock Creek Yard, Grand Forks Highway District
		M-1832-0007	Crushed Granular Aggregate in Stockpile. Keremeos Pit No. 2406, Penticton Highways District
Burnaby-Edmonds	Paving:	S-1748	Asphalt Surfacing 1983-84. Kingsway, Edmonds to Boundary Road (5.5 km) (see also Burnaby-Willingdon)
		S-1754	Asphalt Surfacing 1983-84. Capilano Bridge to East Port Mann Bridge, Trans Canada Highway 1 (12.7 km) (see also Burnaby-Willingdon; Maillairdville-Coquitlam; North Vancouver-Capilano; North Vancouver-Seymour)
Burnaby-Willingdon	Paving:	S-1748	Asphalt Surfacing 1983-84. Kingsway, Edmonds to Boundary Road (5.5 km) (see also Burnaby-Edmonds)
		S-1754	Asphalt Surfacing 1983-84. Capilano Bridge to East Port Mann Bridge, Trans Canada Highway 1 (12.7 km) (see also Burnaby-Edmonds; Maillairdville-Coquitlam; North Vancouver-Capilano; North Vancouver-Seymour)

CONTRACT STATISTICS - Continued

Electoral District			Project
Cariboo	Grading:	C-1710	Construction of North Star Road Interchange, Quesnel (4.783 km) and North Star Bridge Overpass, Cariboo Highway 97.
	Paving:	S-1728	Asphalt Surfacing 1983-84. Highway 24 and Horse Lake Road (28.0 km)
		S-1764	Asphalt Surfacing 1983-84. Chilcotin km 81.8 to km 112.3, Highway 20 (30.5 km)
		S-1784	Asphalt Surfacing 1983-84. Margarite-Quesnel section, Cariboo Highway 97 (55.4 km), and Miscellaneous Roads, Kersley Area (6.9 km) (62.3 km total)
	Miscellaneous:	D-1819	Landscape Development of Williams Lake Arterial, Carson Drive to Lakeview Crescent Cariboo Highway 97 - Alternate "B"
Central Fraser Valley	Bridge:	B-2349	Old Yale Road Underpass No. 2818, Highway 11. Contract No. 1 - General
	Miscellaneous:	D-3713-3	Landscape Development of Bradner Rest Area, Matsqui, B.C. Contract No. 3
Chilliwack	Paving:	S-1749	Asphalt Surfacing 1983-84. Popkum Area Roads Highway 1 (6.05 km), Lake Errock to Junction Highway 9 on Highway 7 (15.5 km) (also see Dewdney)
	Bridge:	B-1716	Gibson Road Underpass No. 2730, and approaches, Trans Canada Highway 1. Contract No. 1 - General, Scheme "B"
Columbia River	Paving:	S-1766	Asphalt Surfacing 1983-84. Miscellaneous Roads in Golden Area and Highway 1 (17.0 km)
		S-1797	Asphalt Surfacing 1983-84. Miscellaneous Roads in the Cranbrook Area (15.6 km)
	Gravel Crushing:	M-1832-0003	Crushed Granular Aggregate in Stockpile, Lakeview Pit No. 3508B. Cranbrook Highway District.
Comox	Paving:	S-1742	Asphalt Surfacing 1983-84. Courtenay to Black Creek Bridge and Miscellaneous Roads, Island Highway 19 (20.2 km)
	Bridge:	B-2131	Cleaning and Painting Courtenay River Bridge No. 0455, Island Highway 19
	Gravel Crushing:	M-1832-0023	Lasqueti Island Maintenance Yards, Port Alberni Highway District
Coquitlam	Grading:	C-1743	Grading Mary Hill Bypass Contract No. 5, Stage 2, Connector to Broadway, Roadwork, Cape Horn to Pit River Highway
Cowichan-Malahat	Bridge:	B-1332	Koksilah River Bridge No. 632, Trans Canada Highway 1. Contract No. 1 - General
		B-1734	Koksilah Pedestrian Overpass No. 2737, Trans Canada Highway 1. Contract No. 1 - General
	Miscellaneous:	D-2491	Landscape Development, Development Road to Allenby Road, Duncan, Trans Canada Highway 1. Awarded by District

CONTRACT STATISTICS - Continued

Electoral District			Project
Delta	Grading:	C-1593	Pier Protection Works and Dredging to Queensborough Bridge, Highway 99
	Paving:	S-1738	Asphalt Surfacing 1983-84. Miscellaneous Sections in Richmond, Surrey and Delta areas (21.9 km) (also see Richmond and Surrey)
	Bridge:	B-0895	Annacis Bridge No. 2753, Annacis Highway Bridge Project. Contract No. 1 - General (also see New Westminster)
Dewdney	Grading:	C-1799-0001	Construct Concrete Foundation Columns on Mission Overhead Approaches
		C-1799-0003	Gravelling and Paving Lougheed Highway Intersections, Highway 1 (1.02 km)
	Paving:	S-1749	Asphalt Surfacing 1983-84. Popkum Area Roads Highway 1 (6.05 km), Lake Errock to Junction Highway 9 on Highway 7 (15.5 km) (also see Chilliwack)
		S-1751	Asphalt Surfacing 1983-84. Stave River to Mission Lougheed Highway 7 (9.9 km)
Esquimalt-Port Renfrew	Bridge:	B-2305	Kirby Creek Bridge No. 1172, West Coast Highway 14. Contract No. 1 - Abutments and Superstructure
Kamloops	Paving:	S-1688	Asphalt Surfacing 1983-84. Relocation Thompson River Bridge to Afton Mines, Highway 1 (29.82 km)
		S-1732	Asphalt Surfacing 1983-84. Sections from Heffley Creek to Barrier, Highway 5 (36.95 km)
	Bridge:	B-1677	Kamloops Bridge (North Thompson River) No. 2810, Highway 5 to Brocklehurst. Contract No. 1 - General, Alternate "A"
		B-1717	Lemieux Creek Bridge No. 2650, Little Fort - Cariboo Highway 24. Contract No. 1 - General
		B-2428	Kamloops Junction Overhead No. 2811, Kootenay Road Underpass No. 2813, Highway 5 to Brocklehurst. Contract No. 1 - General
	Gravel Crushing:	M-1832-0018	Crushed Granular Aggregate in Stockpile, Gosnel Pit No. 4653, McBride Highway District
		M-1832-0024	Peterson-Scott Pit No. P2113, Kamloops Highway District
Kootenay	Paving:	S-1726	Asphalt Surfacing 1983-84. Fort Steele-Wardner, Southern Trans Provincial Highway 3 (23.0 km)
		S-1797	Asphalt Surfacing 1983-84. Miscellaneous Roads in the Cranbrook Area (15.6 km)
	Bridge:	B-2182	Hosmer Bridge No. 361, Highway 3. Contract No. 1 - General, Sidewalk Addition
	Gravel Crushing:	M-1795-0002	Asphalt Cold Mix in Stockpile. Jaffray Highways Yard, Fernie Highway District
		M-1795-0007	Yahk Pit 35220, Cranbrook Highway District
		M-1832-0028	Crushed Granular Aggregate in Stockpile. Moir Pit No. P3557A, Cranbrook Highway District
	Miscellaneous:	C-1864	Construction of Weigh Scale Station, Sparwood Highway 3
		J-3056	Noxious Weed Control on Right of Way, Warner to Crowsnest Pass, Highway 3 (130 km)

CONTRACT STATISTICS - Continued

Electoral District			Project
Mackenzie	Gravel Crushing:	M-1795-0005	Asphalt Cold Mix in Stockpile. Powell River and Texada Island Maintenance Yards, Gibson Highway District
		M-1795-0006	Gibson and Madeira Park Maintenance Yards, Gibsons Highway District
		M-1832-0004	Crushed Granular Aggregate in Stockpile. Ruby Lake Pit 1267H, Gibson Highway District.
		M-1832-0021	Padgett Pit No. P1235B, Gibson Highway District
Maillardville-Coquitlam	Grading:	C-1841-0001	Gravelling and Paving Cape Horn Interchange, Lougheed Highway 7 (3.32 miles)
	Paving:	S-1754	Asphalt Surfacing 1983-84. Capilano Bridge to East Port Mann Bridge, Trans Canada Highway 1 (12.7 km) (also see Burnaby-Edmonds, Burnaby-Willingdon; North Vancouver-Capilano; North Vancouver-Seymour)
	Bridge:	B-1827	Cape Horn Flyover No. 2749, Cape Horn Overpass No. 2 - No. 628, Widening Cape Horn Interchange, Lougheed Highway 7. Contract No. 1 - General
Nelson-Creston	Paving:	S-1824	Asphalt Surfacing 1983-84. Miscellaneous Paving on Highways 3, 3A, 3B and 6, Nelson Area (36.8 km) (also see Rossland-Trail)
	Bridge:	B-1736	Passmore Bridge No. 0780, Passmore Upper Road; Slocan Park Bridge No. 1398, Slocan Valley West Road. Contract No. 1 - General
		B-1823	Creston-Porthill Bridge No. 1 - No. 944, Creston-Rupert Highway. Contract No. 1 - General
New Westminster	Grading:	C-2416	Construction, Annacis Island Section, Soil Densification Highway 99 to Queensborough Bridge
	Bridge:	B-0894	Annacis Channel Moveable Bridge No. 2760, Pembina Road. Contract No. 1 - General
		B-0895	Annacis Bridge No. 2753. Contract No. 1 - General (also see Delta)
		B-2450	Pile Driving and Load Test, Annacis Highway
North Island	Bridge:	B-2420	Buttle Narrows Bridge No. 7321, Highway 28. Contract No. 1 - General
	Gravel Crushing:	M-1832-0013	Crushed Granular Aggregate in Stockpile Cortes and Quadra Islands, Courtenay Highway District
North Peace River	Bridge:	B-2300	Fort Nelson River Bridge No. 2607, Fort Nelson-Fort Simpson Highway. Contract No. 1 - Substructure
	Gravel Crushing:	M-1832-0014	Crushed Granular Aggregate in Stockpile Wilde Pit P4468, Fort St. John Highway District
		M-1832-0015	Pickerall Stockpile Site No. P4495, Fort St. John Highway District
		M-1832-0016	Petitot River Stockpile Site, Fort St. John Highway District
North Vancouver-Capilano	Paving:	S-1754	Asphalt Surfacing 1983-84. Capilano Bridge to East Port Mann Bridge, Trans Canada Highway 1 (12.7 km) (also see Burnaby-Edmonds, Burnaby-Willingdon; Maillairdville-Coquitlam; North Vancouver-Seymour)

CONTRACT STATISTICS - Continued

Electoral District			Project
North Vancouver - Seymour	Grading:	C-1725	Construction Lynn Creek, Seymour River; Fern Street to Mount Seymour Parkway, L-100 Sta. 98+30 to L-100 Sta. 112+00 (1.37 km) L-200 Sta. 199+07.5 to L-200 Sta. 207+75) (0.686 km) L-300 line to L-900 line (1.637 km) (total 3.693 km)
	Paving:	S-1754	Asphalt Surfacing 1983-84. Capilano Bridge to East Port Mann Bridge, Trans Canada Highway 1 (12.7 km) (also see Burnaby-Edmonds, Burnaby-Willingdon; Maillairdville-Coquitlam; North Vancouver-Capilano)
Okanagan - North	Paving:	S-2398	Asphalt Surfacing 1983-84. Westside Road, Kelowna Highway District, km 17.8 to km 22.9 (5.1 km)
Okanagan - South	Grading:	C-0982	Construction and reconstruction of Glenmore Street Extension of the Greater Kelowna Grid Road System (3.13 miles)
		C-2431	Construction and reconstruction from Gorman's Mill to south boundary Indian Reserve No. 9 including Westbank Couplet, Okanagan Highway 97 (5.25 km)
	Paving:	S-0637	Asphalt Surfacing 1983-84. Catt Avenue to Shuswap Avenue, Village of Lumby. Storm sewer, curb, gutter, and paving (0.92 km) Highway 6 (paving 9.6 km)
		S-0084-2903	Asphalt Surfacing 1983-84. Graded Seal Coat in Stockpile for Highway 23 and Big White Road (also see Boundary-Similkameen)
	Miscellaneous:	D-1805	Landscape Development, Sta. 767+00 to Westside Road, Kelowna, Highway 97
		D-1806	Landscape Development, Westside Road to Kelowna Bridge, Highway 97
Omineca	Grading:	C-2329-0001	Construction, Burns Lake Bridge to Yellowhead Highway 16, Sta. 10+08.197 to Sta. 18+37.705 including C.N.R. Overhead Structure, North Francois Highway 35 (0.83 km)
	Paving:	S-1737	Asphalt Surfacing 1983-84. Burns Lake to Tintagel Section of Yellowhead Highway 16 (14.9 km) and 10 km in Burns Lake Highway District, Highway 35 (total 24.9 km)
	Bridge:	B-2369	Walcott Footbridge No. 904, Walcott Road 153. Replacement of Towers
	Gravel Crushing:	M-1832-0030	Twin Roads, McLure, and Six Mile Pits, Burns Lake Highway District
Prince George - North	Grading:	C-1703	Construction, Otway Road to North Nechako Road, Foothills Boulevard Extension Sta. 95+50 to Sta. 166+40 (1.34 miles or 2.16 km) (also see Prince George South)
	Gravel Crushing:	M-1832-0006	Crushed Granular Aggregate in Stockpile, Honeymoon Creek Pit No. P4124K, Prince George Highway District

CONTRACT STATISTICS - Continued

Electoral District		Project	
Prince George - South	Grading:	C-1703	Construction, Otway Road to North Nechako Road, Foothills Boulevard Extension Sta. 95+50 to Sta. 166+40 (1.34 miles or 2.16 km) (also see Prince George North)
		C-1815-0001	Reconstruction. Part I - Fifth Avenue Paving, Highway 97; Part II - Gravelling and Paving Ministry of Transportation and Highways Maintenance Yard; Part III - C.N.R. Overhead Approaches, Paving west end of Fraser River Bridge, Highway 16
	Paving:	S-1678	Asphalt Surfacing 1983-84. Lee Road to Fraser River Road (35.6 km) and Miscellaneous Roads, Yellowhead Highway 16 (5.9 km)
		S-1727	Asphalt Surfacing 1983-84. Upper Fraser River Road (24.0 km)
	Bridge:	B-1070	Swift Creek Bridge No. 2589, Valemount Secondary Road. Contract No. 1 - General
		B-2348	Patricia Boulevard Overhead No. 2815, Highway 16. Contract No. 1 - General, Alternate "B"
	Gravel Crushing:	M-1832-0005	Crushed Granular Aggregate in Stockpile. Pedley Lake Pit No. 4261, Quesnel Highway District
		M-1832-0017	Pinko Pit No. P4136, Prince George Highway District
		M-1832-0019	Tinsley Pit No. 4643, McBride Highway District
Prince Rupert	Grading:	C-1684	Construction, Tyee C.N.R. Overpass Sta. 19+07 to Sta. 45+43.5683 and Sta. 1013+97.285 to Sta. 1018+11.824, Yellowhead Highway 16 (3.051 km)
		C-1684-0001	Asphalt Surfacing 1983-84. Bridge Approaches (Aberdeen, Inver, and Ekumsekum Creeks) Miscellaneous Intermittent Paving, Inver Creek to Tyee Highway 16
Richmond	Paving:	S-1738	Asphalt Surfacing 1983-84. Miscellaneous Sections in Richmond, Surrey and Delta Areas (21.9 km) (also see Surrey and Delta)
	Bridge:	B-1682	Middle Arm Bridge No. 6306, Sea Island Highway. Contract No. 1 - Pile Protection
Rossland - Trail	Paving:	S-1824	Asphalt Surfacing 1983-84. Miscellaneous Paving in Nelson Area on Highways 3, 3A, 3B and 6 (36.8 km) (also see Nelson-Creston)
	Bridge:	B-0566	Trail C.P.R. Underpass No. 2672, Trail Pipeline Underpass No. 2673, Trail-Tadanac Relocation and Extension Highway 22. Contract No. 1, Alternate "B"
Saanich & The Islands	Grading:	C-0408-0001	Gravelling and Paving of Clanton Road in Montagne Harbour Area of Galiano Island (1.03 km)
		C-1711	Construction of McKenzie Avenue Extension. Part B - Burnside Road to Douglas Street (1.14 miles). Part C - Construction of Swan Creek Bridge. Part D - Construction of Carey Road Pedestrian Overpass
	Bridge:	B-1753	Interurban Overpass No. 2728, McKenzie Avenue, Victoria, Contract No. 1 - General
	Gravel Crushing:	M-1832-0029	Crushed Granular Aggregate in Stockpile. To supply and deliver on Saltspring, Pender and Saturna Islands, Saanich Highway District
		M-1832-0035	To supply and deliver to Saltspring, Pender, Mayne, Galiano, and Saturna Islands, Saanich Highway District

CONTRACT STATISTICS - Continued

Electoral District			Project
Shuswap - Revelstoke	Grading:	C-2352-0001	Reconstruction of St. Cyr Culvert, 8 km north of Revelstoke on Highway 23
	Paving:	S-1730	Asphalt Surfacing 1983-84. Miscellaneous Roads, Salmon Arm District (14.6 km)
		S-1731	Asphalt Surfacing 1983-84. Miscellaneous Roads, North Shuswap (29.7 km)
		S-1822	Asphalt Surfacing 1983-84. Revelstoke to Martha Creek, Revelstoke-Mica Highway 23 and Miscellaneous Streets in Revelstoke (18.85 km)
		S-1843	Asphalt Surfacing 1983-84. Bigmouth Creek to Mica Damsite section, Revelstoke-Mica Highway 23 (30.6 km)
	Bridge:	B-2393	Clanwilliam Overhead No. 354, Trans Canada Highway 1, Hangar and Portal Strut Repairs
	Gravel Crushing:	M-1832-0025	Crushed Granular Aggregate in Stockpile, Charleston Pit, Salmon Arm Highway District
Skeena	Paving:	S-1705	Asphalt Surfacing 1983-84. A - Kitwancool North Highway 37 (41.8 km); B - Kitwancool Accesses and Streets (5.4 km) (also see Atlin)
		S-1707	Storm, Sewer, Curb and Gutter and Paving, Kenney Street to Eby Street District of Terrace, Highway 16 (1.5 km) Miscellaneous Streets Thornhill Area (26.5 km)
		S-1721	Asphalt Surfacing 1983-84. Blackwater Creek - Kasiks River (10.82 km)
		S-1763	Asphalt Surfacing 1983-84. Kalum Lake Road (51.1 km)
		S-1765	Asphalt Surfacing 1983-84. Miscellaneous Smithers Roads and Highway 16 (47.1 km)
	Bridge:	B-1381	Cranberry River Crossing No. 1 - No. 2680, Cranberry River Crossing No. 2 - No. 2681, Kitwanga-Meziadin Lake Highway 37, Kitwancool Bridge No. 2693, Kitwancool Access Road. Contract No. 1 - General, Scheme "A"
		B-1670	Ekumsekum Creek Bridge No. 2238, Marigonish Creek Bridge No. 2239, Antigonish Creek Bridge No. 2240, Inver Creek Bridge No. 2241, Aberdeen Creek Bridge No. 2242, Terrace-Prince Rupert Bridge, Yellowhead Highway 16, Contract No. 1 - General
	Gravel Crushing:	M-1832-0022	Crushed Granular Aggregate in Stockpile. 9 Mile Pit No. P5403C, Smithers Highway District
		M-1832-0027	Crushed Granular Aggregate in Stockpile. Pit No. 1 P5251 and Crescent Pit No. P5250, Terrace Highway District
South Peace River	Grading:	C-0282	Reconstruction - John Hart-Peace River Highway D.L. 8917, Garbitt Tunnel (Sta. 1440+00 to Sta. 1881+00 (8.32 miles)
	Paving:	S-1739	Asphalt Surfacing 1983-84. Miscellaneous Roads, Dawson Creek Area (19.3 km)
		S-1812	Asphalt Surfacing 1983-84. Martin Creek to Gwillim Lake Park Boundary, Chetwynd-Tumbler Ridge Highway 29 (27.35 km)
		S-1813	Asphalt Surfacing 1983-84. Gwillim Lake Park Boundary to Bullmoose Creek Bridge, Chetwynd-Tumbler Ridge Highway 29 (33.43 km)
		S-1814	Asphalt Surfacing 1983-84. Bullmoose Creek to Quintette Access road (20.72 km)

CONTRACT STATISTICS - Continued

Electoral District		Project	
Surrey	Paving:	S-1738	Asphalt Surfacing 1983-84. Miscellaneous Sections in the Richmond, Surrey and Delta Areas (21.9 km) (also see Delta and Richmond)
West Vancouver-Howe Sound	Bridge:	B-2409	Alberta Creek Bridge No. 1643, Garibaldi Highway 99, Contract No. 1 - General
		B-2452	Montizambert Creek Bridge No. 1446, Garibaldi Highway 99, Contract No. 1 - General
Yale-Lillooet	Grading:	C-0579	Construction, Dry Gulch to Mine Creek Section, Coquihalla Highway, km 48.98 to km 58.32 (9.34 km)
	Paving:	S-1729	Asphalt Surfacing 1983-84. Storm Sewers, Curb and Gutter, and Paving in Cache Creek, Highways 1 and 97 (1.67 km)
	Bridge:	B-1794	Texas Creek Bridge No. 1076, Four laning, Trans Canada Highway 1, Contract No. 1 - General
		B-2347-0001	Boston Bar Bridge No. 1535, Removal, supply and erection of steelwork, Boston Bar to North Bend Access; Silver Tip Falls Bridge No. 1391; Carnes Creek Bridge No. 1534; Mars Creek Bridge No. 1430; Downie Creek Bridge No. 857; Bigmouth Creek Bridge No. 1095, Revelstoke-Mica Highway 23
		B-2347-0002	Boston Bar Bridge No. 1535, Boston Bar to North Bend Access. Contract No. 2 - Substructure
	Gravel Crushing:	M-1795-0003	Asphalt Cold Mix in Stockpile, Godie Pit, Logan Lake East Pit, Wright Pit, Merritt and Penticton Highway District
		M-1795-0004	Copper Valley Pit and Anderson Pit, Lillooet Highway District
		M-1832-0001	Crushed Granular Aggregate in Stockpile, Snass Creek Pit P1589, Florence Pit No. 1501, Agassiz Pit 1549A, Chilliwack Highway District
		M-1832-0002	Othello Pit No. 1552, Chilliwack Highway District
		M-1832-0008	Logan Lake East Pit No. P2553, Merritt Highway District
		M-1832-0009	Chukar Pit No. P2524, Merritt Highway District
		M-1832-0010	Walloper Pit No. P2556, Merritt Highway District
		M-1832-0011	Ruby Pit No. P2546, Merritt Highway District
		M-1832-0012	Spius Pit No. P2545, Merritt Highway District
		M-1832-0026	Scotty Creek Pit No. P2616
		M-1832-0031	Godey, Merritt Highways District, awarded by District
		M-1832-0032	Boyes Creek No. P2676, Lillooet Highway District
		M-1832-0033	Forestry Pit No. 1510, Chilliwack Highway District
		M-1832-0034	Silver Creek Pit No. P1577 and Ford Pit No. P1533, Chilliwack Highway District
		M-2511-0001	Bulgar Pit No. P1558B, Chilliwack Highway District
		M-2511-0002	Pierce Creek Pit No. P1550C, Chilliwack Highway District

TENDERS RECEIVED AND CONTRACTS AWARDED

Roads

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project C-0282 - Reconstruction: John Hart-Peace River Highway, D.L. 8917 Garbitt Tunnel, Sta. 1440+00 to Sta. 1881+00 (8.32 miles)		
Emil Anderson Construction Co. Ltd.	7,779,770.00	Awarded
Edco Construction Co.	7,878,215.50	
Geddes Contracting Co. Ltd.	7,900,658.00	
General Enterprises	8,403,052.00	
Dawson Construction Ltd.	8,827,610.00	
Miann Construction Ltd.	9,519,531.00	
View Construction Ltd.	10,285,315.00	
Peter Kiewit Sons Co. Ltd.	11,674,726.50	
Miller Contracting Ltd.	12,284,469.00	
Project C-0408-0001 - Gravelling and Paving of Clanton Road in the Montague Harbour Area of Galiano Island (1.03 km)		
Jack Cewe Ltd.	178,280.00	Awarded
B.A. Blacktop (A Corporate Partnership)	180,335.00	
Hub City Paving Ltd.	192,600.00	
Island Asphalt Ltd.	210,979.10	
Winvan Paving Ltd.	246,570.00	
Project C-0579 - Construction: Dry Gulch to Mine Creek Section Coquihalla Highway km 48.98 to km 58.32 (9.34 km)		
Dawson Construction Ltd.	5,333,303.00	Awarded
View Construction Ltd.	5,877,983.00	
Edco Construction Co.	5,892,398.00	
Geddes Contracting Co. Ltd.	6,267,436.00	
Emil Anderson Construction Co. Ltd.	6,379,600.00	
Spring Point Management Ltd.	6,540,008.00	
Miller Contracting Ltd.	6,626,755.00	
Tercon Contractors Ltd.	6,859,093.00	
Goodbrand Construction Ltd.	7,302,357.00	
Peter Kiewit Sons Co. Ltd.	7,904,742.00	
Project C-0982 - Construction and Reconstruction of Glenmore Street Extension of the Greater Kelowna Grid Road System (3.13 miles)		
Cantex Engineering and Construction Co. Ltd.	1,429,469.37	Awarded
Tercon Contractors	1,611,146.30	
Midvalley Construction Co. (A Div. of Emil Anderson Construction Ltd.)	1,725,351.00	
Marken Bros. Contracting Ltd.	1,730,096.23	
H. Funk Excavating Ltd.	1,778,993.70	
Geddes Contracting Co. Ltd.	1,804,664.50	
Spring Point Management Ltd.	1,825,059.00	
Project C-1593 - Pier Protection Works and Dredging Highway 99 to Queensborough Bridge		
Miller Contracting Ltd.	4,289,600.00	Awarded
Fraser River Pile Driving Co. Ltd.	4,460,890.00	
Sceptre-Riedel - Dawson Construction Ltd.	5,122,195.00	
Dillingham Construction Ltd.	5,393,000.00	
Peter Kiewit Sons Co. Ltd.	6,515,435.00	
Project C-1684 - Reconstruction: Tyee C.N.R. Overpass Approaches Sta. 19+07 to Sta. 45+43.568 Yellowhead Highway 16 (2.637 km)		
Foster's Construction	4,990,479.80	Recalled
Loram Construction Ltd.	6,732,745.00	
Dawson Construction Ltd.	7,650,918.00	
Emil Anderson Construction Co. Ltd.	6,775,691.00	
Geddes Contracting Co. Ltd.	7,165,381.00	
Peter Kiewit Sons Co. Ltd.	7,747,986.00	
Tonto Construction Ltd.	7,953,568.00	
Northern Construction Co.	8,070,870.00	
Miller Contracting Ltd.	8,585,050.00	
View Construction Ltd.	9,196,237.00	

Roads - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project C-1684 - Construction: Tyee C.N.R. Overpass and Approaches Sta. 19+07 to Sta. 45+43.5685 and Sta. 1013+97.265 to Sta. 1018+11.624, Yellowhead Highway 16 (3.051 km)		
Edco Construction Co.	7,155,347.50	Awarded
Edgeworth Construction Ltd.	7,673,852.00	
T.A. Klemke and Sons Construction Ltd.	7,798,085.50	
Loram Construction Ltd.	7,971,536.00	
Dawson Construction Ltd.	7,979,660.00	
Geddes Contracting Co. Ltd.	7,992,255.50	
Emil Anderson Construction Co. Ltd.	8,048,479.00	
View Construction Ltd.	8,118,022.00	
Peter Kiewit Sons Co. Ltd.	8,254,551.00	
Tonto Construction Ltd.	8,328,282.00	
Webb & Trace Ltd.	8,792,205.00	
Project C-1684-0001 - Asphalt Surfacing 1983-84: Bridge Approaches (Aberdeen, Inver, and Ekumsekum Creeks): Miscellaneous Intermittent Paving, Inver Creek to Tyee, Highway 16		
Venture Paving Ltd.	157,913.00	Awarded
Kentron Construction Ltd.	181,100.00	
Terrace Paving Ltd.	182,200.00	
A.C. Paving Co. Ltd.	189,350.00	
Project C-1703 - Construction: Otway Road to North Nechako Road, Foothills Blvd. Extension, Sta. 95+50 to Sta. 166+40 (2.16 km)		
Tercon Contractors Ltd.	2,106,840.00	Awarded
Nu-Road Contracting Ltd.	2,145,313.00	
Columbia Bitulithic Ltd.	2,146,069.60	
Price Bros Contractors Ltd.	2,229,209.50	
Dawson Construction Ltd.	2,266,077.00	
Miller Contracting Ltd.	2,338,826.00	
Geddes Contracting Co. Ltd.	2,352,297.00	
Spring Point Management Ltd.	2,518,584.12	
F. Hedges Construction Ltd.	2,524,879.90	
Goodbrand Construction Ltd.	2,736,506.00	
Emil Anderson Construction Co. Ltd.	2,775,040.00	
Project C-1710 - Construction: North Star Road Interchange, Quesnel (4.783 km) & Northstar Bridge Overpass, Cariboo Highway 97		
Nu-Road Contracting Ltd.	2,091,503.00	Awarded
Tercon Contractors Ltd.	2,144,602.10	
Emil Anderson Construction Co. Ltd.	2,165,268.00	
Spring Point Management Ltd.	2,213,771.00	
Dawson Construction Ltd.	2,375,143.00	
P. Gamache and Sons Logging Ltd.	2,444,754.93	
Project C-1711 - Part B - Construction of McKenzie Avenue Extension, Burnside Road to Douglas Street (1.14 miles). Part C - Construction of Swan Creek Bridge. Part D - Construction of Carey Road Pedestrian Overpass		
Webb & Trace Ltd.	3,576,447.90	Awarded
H.B. Contracting Ltd.	3,777,387.85	
Chew Excavating Ltd.	3,887,993.19	
Dura Construction Ltd.	4,377,382.30	
Goodbrand Construction Ltd.	4,166,906.00	
Project C-1723 - Construction of the Cranberry Crossing No. 1 to Derrick Creek Section of Cassiar Highway 37 (18.55 km)		
Dawson Construction Ltd.	8,855,071.00	Awarded
Emil Anderson Construction Co. Ltd.	9,266,654.00	
Edco Construction Co.	9,441,758.50	
Miller Contracting Ltd.	9,655,780.00	
Geddes Contracting Co. Ltd.	10,619,363.00	
General Enterprises	10,776,972.00	
Miann Construction Ltd.		Pages missing, tender incomplete
Goodbrand Construction Ltd.	13,448,218.00	

Roads - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project C-1725 - Construction: Lynn Creek Seymour River: Fern Street to Mount Seymour Parkway: L-100 Sta. 98+30 to L-100 Sta. 112+00 (1.37 km); L-200 Sta. 199+07.5 to L-200 Sta. 207+75 (0.686 km); L-300 Line to L-900 Line (total 1.637 km)		
United Contractors Ltd.	1,635,607.50	Awarded
B.A. Blacktop Ltd.	1,651,210.80	
Goodbrand Construction Ltd.	1,710,172.00	
C. Victor Koran Ltd.	1,715,348.10	
Graehold Construction Corp.	1,758,105.35	
Ocean Point Contractors Ltd.	1,761,818.00	
Dawson Construction Ltd.	1,858,402.65	
Jack Cewe Ltd.	1,968,372.14	
Southwest Contracting Ltd.	2,052,267.49	
Kany Construction and Engineering Ltd.	2,087,772.91	
Miller Contracting Ltd.	2,133,908.00	
Regent Construction Co. (1974) Ltd.	2,383,641.92	
Project C-1743 - Grading: Mary Hill Bypass, Contract No. 5 Stage 2: Connector to Broadway: Roadworks, Cape Horn to Pitt River Highway		
Miller Contracting Ltd.	6,463,920.00	Awarded
Goodbrand Construction Ltd.	6,641,380.00	
Southwest Contracting Ltd.	6,655,897.66	
Dawson Construction Ltd.	6,910,764.54	
Jack Cewe Ltd.	7,240,245.99	
C. Victor Koran Ltd.	9,365,703.00	
Project C-1744 - Paving, Curb and Gutter, Storm Drainage Penticton Channel Parkway, Stage II, City of Penticton Highway 97, Sta. 4+540.606 to Sta. 7+690 (3.15 km)		
Cantex Engineering and Construction Co. Ltd.	959,570.61	Awarded
Peter Bros. Paving (1981) Ltd.	1,140,724.00	
Kany Construction and Engineering Ltd.	1,399,630.86	
Project C-1799-0001 - Construct Concrete Foundation Column on Mission Overhead Approaches		
Franki Canada Ltd.	572,495.00	
G.K.N. Keller Canada Ltd.	872,981.25	
Byrne Pile Driving and Dredging (A Division of D.J. Byrne Construction Ltd.)	1,214,020.00	
Project C-1799-0003 - Gravelling and Paving Lougheed Highway Intersection, Highway 11 (1.02 km)		
Columbia Bitulithic Ltd.	382,416.00	Awarded
Jack Cewe Ltd.	402,357.00	
Imperial Paving Ltd.	422,345.00	
Grandview Blacktop Ltd.	487,701.00	
Project C-1815-0001 - Part I - Reconstruction: Fifth Avenue, Paving, Highway 97: Part II - Gravelling and Paving, Ministry of Transportation and Highways Maintenance Yard: Part III - C.N.R. Overhead Approaches, Highway 16, Paving West End of Fraser River Bridge		
Columbia Bitulithic Ltd.	734,585.00	Awarded
Central Paving and Engineering Ltd.	788,685.00	
Project C-1838-0002 - Crushed Granular Aggregate in Stockpile Bench Creek Pit No. 3413E, New Denver Highway District		
Points-West Equipment Ltd.	94,750.00	Awarded
D.M.J. Construction Ltd.	103,050.00	
Ptarmigan Gravel Ltd.	115,000.00	
Cantex Engineering and Construction Ltd.	150,050.00	
Langley Low-Cost Builders Ltd.	151,750.00	
Inland Contracting and Sweeping Ltd.	163,800.00	
Kildala Land Development Co. Ltd.	230,000.00	

Roads - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project C-1841-0001 - Gravelling and Paving: Cape Horn Interchange, Lougheed Highway 7 (3.32 miles)		
Jack Cewe Ltd.	718,850.98	Awarded
Columbia Bitulithic Ltd.	743,669.50	
Winvan Paving Ltd.	854,356.00	
B.A. Blacktop (A Corporate Partnership)	923,761.00	
Project C-2329-0001 - Construction: Burns Lake Bridge to Yellowhead Highway 16, Sta. 10+08.197 to Sta. 18+37.705, including C.N.R. Overhead Structure. North Francois Highway 35 (0.83 km)		
Jaemar Construction Co. Ltd.	1,321,730.00	Awarded
Tercon Contractors Ltd.	1,441,530.11	
Meta Construction Ltd.	1,487,948.00	
Nu-Road Contracting Ltd.	1,512,861.50	
Winvan Paving Ltd.	1,522,835.86	
Interior Contracting Co. Ltd.	1,548,788.35	
Bud's Truck and Equipment Ltd.	1,588,500.50	
Wayne Watson Construction Ltd.	5,197,124.00	
Project C-2352-0001 - Reconstruction: St. Cyr Culvert, 8 km north of Revelstoke on Highway 23		
Max Helmer Construction	19,444.00	Awarded
Columbia River Steel Services Ltd.	125,800.00	
Project C-2416 - Construction: Annacis Island Section, Soil Densification, Highway 99 to Queensborough Bridge		
Geopac West Ltd.	889,500.00	Does not mee specifications
The Cementation Co. (Canada) Ltd.	1,095,000.00	Awarded
G.K.N. Keller Canada Ltd.	1,588,800.00	
Western Caissons Ltd.	1,697,588.00	
Franki Canada Ltd.	2,719,775.00	
Project C-2431 - Construction and Reconstruction: Gorman's Mill to South Boundary Indian Reserve No. 9, including Westbank Couplet; Okanagan Highway 97 (5.25 km)		
Peters Bros. Paving (1981) Ltd.	2,719,801.35	Awarded
Coldstream Construction Ltd.	2,762,639.00	
Kanata Contracting Ltd.	2,798,477.20	
Cantex Engineering & Construction Ltd.	2,843,298.49	
Midvalley Construction Co. (A Division of Emil Anderson Construction Co.)	2,967,471.00	
Spring Point Management Ltd.	3,022,029.00	
Nu-Road Contracting Ltd.	3,197,148.28	
Jaycon Contracting Ltd.	3,213,111.00	
Argo Industries Ltd.	3,273,338.56	
Kany Construction and Engineering Ltd.	3,378,074.70	
Miller Contracting Ltd.	3,739,903.25	
Meta Construction Ltd.	3,931,031.00	
Webb and Trace Ltd.	3,958,861.65	
Dawson Construction Ltd.	3,974,497.00	
D.G. Smith Engineering Ltd.	4,474,388.00	

Paving

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-0637 - Asphalt Surfacing 1983-84: Catt Avenue to Shuswap Avenue, Village of Lumby Storm Sewer, Curb and Gutter and Paving (0.92 km) Highway 6 (Paving 9.6 km)			
Vernon Paving Ltd.		783,773.00	Awarded
Backland Construction Ltd.		856,882.15	
Peterson Contracting Ltd.		887,605.02	
Cantex Engineering and Construction Co. Ltd.		923,770.59	
LeDuc Paving Ltd.		932,444.93	
Coho Paving Ltd.		1,193,802.45	
H.B. Contracting Ltd.		1,277,768.51	
Project S-1678 - Asphalt Surfacing 1983-84: Lee Road to Fraser River Road (35.6 km) and Miscellaneous Roads, Yellowhead Highway 16 (5.9 km)			
Midvalley Construction Co.		2,244,732.00	Awarded
Columbia Bitulithic Ltd.		2,277,520.00	
Eastbrook Sand and Gravel Ltd.		2,388,750.00	
Rorison Enterprises Ltd.		2,413,270.00	
Venture Paving Ltd.		2,466,299.00	
LeDuc Paving Ltd.		2,498,915.00	
Peter Kiewit Sons Co. Ltd.		2,543,300.00	
West Coast Paving Co. Ltd.		2,694,525.00	
Project S-1688 - Asphalt Surfacing 1983-84: Relocation Thompson River Bridge to Afton Mines, Highway 1 (29.82 km)			
H. Williamson Blacktop and Landscaping Ltd.		1,398,118.70	Awarded
Columbia Bitulithic Ltd.		1,562,706.00	
West Coast Paving Co. Ltd.		1,579,431.38	
LeDuc Paving Ltd.		1,703,304.00	
Venture Paving Ltd.		1,741,890.79	
Midvalley Construction Co.		1,796,906.60	
Peter Kiewit Sons Co. Ltd.		1,849,204.00	
Project S-1705 - Asphalt Surfacing 1983-84: A. Kitwancool North (41.8 km) Highway 37. B. Kitwancool Access and Streets (5.4 km)			
Midvalley Construction Co.		2,492,108.00	Awarded
Venture Paving Ltd.		2,555,247.00	
West Coast Paving Co. Ltd.		2,613,642.00	
Peter Kiewit Sons Co. Ltd.		2,683,220.00	
LeDuc Paving Ltd.		2,783,038.00	
Columbia Bitulithic Ltd.		2,943,965.00	
Project S-1707 - Storm Sewer, Curb and Gutter and Paving, Kenney Street to Eby Street, District of Terrace, Highway 16 (1.15 km) Miscellaneous Streets Thornhill Area (26.5 km)			
Columbia Bitulithic Ltd.		1,603,095.82	Awarded
Midvalley Construction Co. (A Division of Emil Anderson Construction)		1,776,889.70	
Central Paving and Engineering Ltd.		1,912,749.00	
A.C. Paving Co. Ltd.		1,962,619.58	
LeDuc Paving Ltd.		1,990,946.25	
Project S-1721 - Asphalt Surfacing 1983-84: Blackwater Creek Kasiks River Yellowhead Highway 16 (10.82 km)			
Columbia Bitulithic Ltd. Ltd.	Alternate A	1,068,169.00	Awarded
	Alternate B	-	
West Coast Paving Co. Ltd.	Alternate A	1,153,756.00	
	Alternate B	-	
Midvalley Construction Co. (A Division of Emil Anderson Construction)	Alternate A	1,178,140.00	
	Alternate B	-	
LeDuc Paving Ltd.	Alternate A	1,286,695.00	
	Alternate B	-	
Central Paving and Engineering Ltd.	Alternate A	1,346,720.00	
	Alternate B	-	

Paving - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1726 - Asphalt Surfacing 1983-84: Fort Steel - Wardner Southern Trans Provincial Highway 3 (23.0 km)		
Cantex Engineering and Construction Co. Ltd.	957,119.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.	959,400.00	
Midvalley Construction Co.	1,012,923.00	
Columbia Bitulithic Ltd.	1,076,813.00	
Coho Paving Ltd.	1,121,258.75	
Venture Paving Ltd.	1,147,000.50	
Peter Kiewit Sons Co. Ltd.	1,210,385.00	
LeDuc Paving Ltd.	1,229,580.00	
B.A. Blacktop (Cranbrook) Ltd.	1,297,433.73	
Project S-1727 - Asphalt Surfacing 1983-84: Upper Fraser River Road (24.00 km)		
H. Williamson Blacktop and Landscaping Ltd.	825,400.00	Awarded
Central Paving and Engineering Ltd.	896,300.00	
LeDuc Paving Ltd.	932,452.00	
Peter Kiewit Sons Co. Ltd.	1,079,547.37	
Columbia Bitulithic	1,167,100.00	
Project S-1728 - Asphalt Surfacing 1983-84: Highway 84 and Horse Lake Road (28.0 km)		
H. Williamson Blacktop and Landscaping Ltd.	1,693,840.00	Awarded
LeDuc Paving Ltd.	1,907,840.00	
Cantex Engineering and Construction Co. Ltd.	1,932,550.00	
West Coast Paving Co.	2,011,950.00	
Columbia Bitulithic Ltd.	2,142,000.00	
Peter Kiewit Sons Co. Ltd.	2,071,440.00	
Venture Paving Ltd.	2,813,767.50	
Project S-1729 - Asphalt Surfacing 1983-84: Storm Sewer, Curb and Gutter, and Paving in Cache Creek, Highways 1 and 97 (1.67 km)		
Argo Industries Ltd.	628,296.45	Awarded
Bachand Construction Ltd.	630,060.00	
B.A. Blacktop	632,050.18	
Cantex Engineering and Construction Co. Ltd.	669,689.47	
Peterson Contracting Ltd.	754,890.57	
H. Funk Excavating Ltd.	813,626.90	
Winvan Paving Ltd.	886,697.50	
Dawson Construction Ltd.	920,338.00	
Project S-1730 - Asphalt Surfacing 1983-84: Salmon Arm District Miscellaneous Roads (14.6 km)		
Columbia River Paving Ltd.	584,270.00	Awarded
Cantex Engineering and Construction Co. Ltd.	591,809.42	
Vernon Paving Ltd.	620,539.35	
Grandview Blacktop Ltd.	625,872.60	
Dawson Construction Ltd.	698,050.00	
Winvan Paving Ltd.	753,375.79	
Columbia Bitulithic Ltd.	919,375.50	
Peter Kiewit Sons Co. Ltd.	1,026,269.65	
Midvalley Construction Co.	1,162,278.00	
Project S-1731 - Asphalt Surfacing 1983-84: North Shuswap Miscellaneous Roads (29.7 km)		
Cantex Engineering and Construction Co. Ltd.	820,225.00	Awarded
Columbia Bitulithic Ltd.	1,022,670.00	
Grandview Blacktop Ltd.	1,034,427.00	
LeDuc Paving Ltd.	1,048,210.00	
Winvan Paving Ltd.	1,258,909.00	

Paving - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1732 - Asphalt Surfacing 1983-84: Sections from Heffley Creek to Barriere, Highway 5 (36.95 km)			
Midvalley Construction Co. (A Division of Emil Anderson Construction Co. Ltd.)		1,097,584.00	Awarded
LeDuc Paving Ltd.		1,341,090.00	
West Coast Paving Co.		1,346,833.00	
H. Williamson Blacktop and Landscaping Ltd.		1,354,371.25	
Columbia Bitulithic Lt.		1,421,956.50	
Venture Paving Ltd.		1,490,251.75	
B.A. Blacktop (Kamloops)		1,496,789.18	
Project S-1737 - Asphalt Surfacing 1983-84: Burns Lake to Tintagel Section of Yellowhead Highway 16 (14.9 km) and 10 km in Burns Lake Highway District, Highway 35 (total 24.9 km)			
Grandview Blacktop Ltd.		1,028,607.00	Awarded
Central Paving and Engineering Ltd.		1,029,130.00	
H. Williamson Blacktop and Landscaping Ltd.		1,060,246.50	
LeDuc Paving Ltd.		1,140,640.00	
Venture Paving Ltd.		1,141,980.70	
Peter Kiewit Sons Co. Ltd.		1,199,525.00	
West Coast Paving Co. Ltd.		1,227,004.00	
Columbia Bitulithic Ltd.		1,239,714.00	
Project S-1738 - Asphalt Surfacing 1983-84: Miscellaneous Sections in the Richmond, Surrey and Delta Areas (21.9 km)			
Jack Cewe Ltd.		795,556.09	Awarded
Imperial Paving Ltd.		803,288.00	
Winvan Paving Ltd.		806,714.00	
Columbia Bitulithic Ltd.		824,070.50	
Project S-1739 - Asphalt Surfacing 1983-84: Miscellaneous Roads, Dawson Creek Area (19.3 km)			
Aero Asphalt Paving Ltd.	Alternate A	1,252,933.90	Awarded
	Alternate B	1,341,633.90	
Peter Kiewit Sons Co. Ltd.	Alternate A	1,434,800.00	
	Alternate B	no bid	
Columbia Bitulithic Ltd.	Alternate A	1,438,240.00	
	Alternate B	1,453,990.00	
Cantex Engineering & Construction Co. Ltd.	Alternate A	1,261,850.00	
	Alternate B	1,468,350.00	
Central Paving and Engineering Ltd.	Alternate A	1,715,430.00	
	Alternate B	no bid	
West Coast Paving Co. Ltd.	Alternate A	1,751,934.00	
	Alternate B	no bid	
LeDuc Paving Ltd.	Alternate A	2,224,264.00	
	Alternate B	no bid	
Project S-1741 - Asphalt Surfacing 1983-84: North Fork Road (Grand Forks) and Miscellaneous Junctions on Highway 3 (18.0 km)			
Peters Bros Paving (1981) Ltd.		427,130.00	Awarded
Cantex Engineering and Construction Ltd.		434,894.00	
Grandview Blacktop Ltd.		496,800.00	
H. Williamson Blacktop and Landscaping Ltd.		540,740.00	
Winvan Paving Ltd.		543,225.00	
Columbia Bitulithic Ltd.		564,540.00	
Columbia River Paving Ltd.		594,840.00	
Midvalley Construction Co.		685,125.00	
LeDuc Paving Ltd.		693,750.00	
Project S-1742 - Asphalt Surfacing 1983-84: Courtenay to Black Creek Bridge and Miscellaneous Roads Island Highway 19 (20.2 km)			
Winvan Paving Ltd.		2,407,878.50	Awarded
Venture Paving Ltd.		2,621,142.50	
Hub City Paving Ltd.		2,756,335.00	
Webb and Trace Ltd.		3,370,555.00	

Paving - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1748 - Asphalt Surfacing 1983-84: Kingsway, Edmonds to Boundary Road (5.5 km)		
Winvan Paving Ltd.	1,223,930.00	Awarded
B.A. Blacktop (A Corporate Partnership)	1,260,876.00	
Jack Cewe Ltd.	1,300,703.00	
Columbia Bitulithic Ltd.	1,319,050.00	
Project S-1749 - Asphalt Surfacing 1983-84: Popkum Area Roads Highway 1 (6.05 km); Lake Errock to Junction of Highway 9 on Highway 7 (15.5 km)		
Columbia Bitulithic Ltd.	826,145.00	Awarded
Imperial Paving Ltd.	873,725.00	
Winvan Paving Ltd.	949,155.90	
Project S-1751 - Asphalt Surfacing 1983-84: Stave River to Mission, Lougheed Highway 7 (9.9 km)		
Grandview Blacktop Ltd.	379,898.50	Awarded
Columbia Bitulithic Ltd.	398,408.00	
Winvan Paving Ltd.	415,328.50	
Imperial Paving Ltd.	420,543.00	
Project S-1752 - Asphalt Surfacing 1983-84: Nass River to Hanna Creek Highway 37 (15.0 km), Meziadin to Surprise Creek, Stewart-Meziadin Highway (12.6 km)		
West Coast Paving Ltd.	2,118,592.00	Awarded
Midvalley Construction Co. (A Division of Emil Anderson Construction Co.)	2,118,794.00	
Columbia Bitulithic Ltd.	2,284,815.00	
Peter Kiewit Sons Co. Ltd.	2,884,360.00	
Le Duc Paving Ltd.	1,769,140.00	
Central Paving and Engineering Ltd.	1,863,720.00	
Columbia Bitulithic Ltd.	1,974,420.00	
Project S-1754 - Asphalt Surfacing 1983-84: Capilano Bridge to East of Port Mann Bridge, Trans Canada Highway 1 (12.7 km)		
Columbia Bitulithic Ltd.	1,083,466.00	Awarded
B.A. Blacktop Ltd.	1,100,060.50	
Winvan Paving Ltd.	1,115,492.00	
Jack Cewe Ltd.	1,124,646.53	
Project S-1763 - Asphalt Surfacing 1983-84: Kalum Lake Road, Skeena Electoral District (51.1 km)		
Venture Paving Ltd.	2,999,692.40	Awarded
Columbia Bitulithic Ltd.	3,151,245.00	
LeDuc Paving Ltd.	3,593,510.00	
West Coast Paving Co.	3,671,557.00	
Midvalley Construction Co.	3,993,199.00	
Peter Kiewit Sons Co.	4,013,210.00	
Project S-1764 - Asphalt Surfacing 1983-84: Chilcotin km 81.8 to km 112.3, Highway 20 (30.5 km), Alexis Creek Miscellaneous Streets (1.9 km), Williams Lake District		
H. Williamson Blacktop and Landscaping Ltd.	1,477,660.00	Awarded
Venture Paving Ltd.	1,614,201.80	
Cantex Engineering and Construction Co. Ltd.	1,623,910.00	
Peter Kiewit Sons Co. Ltd.	1,703,924.00	
LeDuc Paving Ltd.	1,769,140.00	
Project S-1765 - Asphalt Surfacing 1983-84: Miscellaneous Smithers Roads and Highway 16 (47.1 km)		
LeDuc Paving Ltd.	1,892,485.00	Awarded
Columbia Bitulithic Ltd.	2,119,192.00	
Central Paving and Engineering Ltd.	2,171,410.00	
Midvalley Construction Co.	2,192,928.00	
Peter Kiewit Sons Co. Ltd.	2,396,800.00	

Paving - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1766 - Asphalt Surfacing 1983-84: Miscellaneous Roads in Golden Area and Highway 1 (17.0 km)			
Cantex Engineering and Construction Co. Ltd.		433,498.00	Awarded
Columbia River Paving Ltd.		480,290.00	
Columbia Bitulithic Ltd.		481,375.00	
Coho Paving Ltd.		510,546.00	
H. Williamson Blacktop & Landscaping Ltd.		520,830.00	
LeDuc Paving Ltd.		585,160.00	
A.C. Paving Co. Ltd.		612,758.87	
Winvan Paving Ltd.		621,884.00	
Project S-1768 - Asphalt Surfacing 1983-84: Paving Miscellaneous Roads in Quesnel Area, Highway 26 (47.9 km)			
Columbia Bitulithic Ltd.		1,562,603.00	Awarded
H. Williamson Blacktop and Landscaping Ltd.		1,743,698.00	
Goodbrand Construction Ltd.		1,939,979.85	
Peter Kiewit Sons Ltd.		1,941,510.00	
Central Paving and Engineering Ltd.		1,998,666.00	
LeDuc Paving Ltd.		2,042,059.00	
Midvalley Construction Ltd.		2,289,368.70	
Venture Paving Ltd.		2,307,009.95	
West Coast Paving		2,408,322.85	
Project S-1784 - Asphalt Surfacing 1983-84: Marguerite-Quesnel Section, Cariboo Highway 97 (55.4 km) and Miscellaneous Roads, Kersley Area (6.9 km) (62.3 km total)			
Columbia Bitulithic Ltd.		2,157,790.00	Awarded
Midvalley Construction Co.		2,296,661.00	
H. Williamson Blacktop & Landscaping Ltd.		2,309,932.50	
West Coast Paving		2,546,347.00	
Peter Kiewit Sons Ltd.		2,612,600.00	
LeDuc Paving Ltd.		2,614,455.00	
Venture Paving Ltd.		2,668,605.00	
Project S-1797 - Asphalt Surfacing 1983-84: Miscellaneous Roads in the Cranbrook Area (15.6 km)			
Cantex Engineering and Construction Co. Ltd.		461,397.00	Awarded
B.A. Blacktop (Cranbrook) Ltd.		495,175.22	
Columbia Bitulithic Ltd.		554,544.00	
Coho Paving Ltd.		572,120.00	
H. Williamson Blacktop and Landscaping Ltd.		579,981.00	
Columbia River Paving Ltd.		596,400.00	
Winvan Paving Ltd.		599,924.00	
Project S-1812 - Asphalt Surfacing 1983-84: Martin Creek to Gwilliam Lake Park Boundary, Chetwynd Tumbler Ridge Highway (27.35 km)			
LeDuc Paving Ltd.	Alternate A	2,685,515.00	
	Alternate B	2,777,515.00	Awarded
Geddes Contracting Co. Ltd.	Alternate A	2,967,445.00	
	Alternate B	-	
Peter Kiewit Sons Co. Ltd.	Alternate A	3,286,240.00	
	Alternate B	-	
Miller Contracting Ltd.	Alternate A	3,212,370.00	
	Alternate B	3,422,170.00	
Columbia Bitulithic Ltd.	Alternate A	3,551,650.00	
	Alternate B	3,376,650.00	
H. Williamson Blacktop and Landscaping Ltd.	Alternate A	3,414,650.00	
	Alternate B	3,487,900.00	

Paving - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1813 - Asphalt Surfacing 1983-84: Gwilliam Lake Park Boundary to Bullmoose Creek Bridge, Chetwynd Tumbler Ridge Highway 29 (33.43 km)			
Columbia Bitulithic	Alternate A	2,373,750.00	
	Alternate B	2,326,750.00	Awarded
LeDuc Paving Ltd.	Alternate A	3,240,380.00	
	Alternate B	3,435,630.00	
H. Williamson Blacktop and Landscaping Ltd.	Alternate A	3,342,950.00	
	Alternate B	3,522,550.00	
Peter Kiewit Sons Co. Ltd.	Alternate A	3,346,260.00	
	Alternate B	-	
West Coast Paving Co. Ltd.	Alternate A	3,360,780.00	
	Alternate B	3,571,980.00	
Project S-1814 - Asphalt Surfacing 1983-84: Bullmoose Creek to Quintette Access Road, Chetwynd-Tumbler Ridge and Heritage Highway 29 (20.72 km)			
Columbia Bitulithic Ltd.	Alternate A	1,533,540.00	
	Alternate B	1,544,140.00	Awarded
H. Williamson Blacktop and Landscaping Ltd.	Alternate A	1,597,700.00	
	Alternate B	1,680,500.00	
Goodbrand Construction Ltd.	Alternate A	1,637,700.00	
	Alternate B	-	
LeDuc Paving Ltd.	Alternate A	1,644,443.68	
	Alternate B	1,722,443.68	
Central Paving and Engineering Ltd.	Alternate A	1,686,120.00	
	Alternate B	1,791,420.00	
Peter Kiewit Sons Co. Ltd.	Alternate A	1,766,238.94	
	Alternate B	1,807,238.94	
West Coast Paving Co. Ltd.	Alternate A	1,873,942.00	
	Alternate B	-	
Eastbrook Sand and Gravel Ltd.	Alternate A	2,027,126.16	
	Alternate B	-	
A.C. Paving Co. Ltd.	Alternate A	3,072,362.63	
	Alternate B	-	
Project S-1822 - Asphalt Surfacing 1983-84: Revelstoke to Martha Creek, Revelstoke-Mica Highway 23 and Miscellaneous Streets in Revelstoke (18.85 km)			
Columbia River Paving Ltd.	Alternate A	529,220.00	Awarded
	Alternate B	-	
Columbia Bitulithic Ltd.	Alternate A	626,547.00	
	Alternate B	738,405.00	
H. Williamson Blacktop and Landscaping Ltd.	Alternate A	661,315.00	
	Alternate B	715,265.00	
LeDuc Paving Ltd.	Alternate A	726,323.00	
	Alternate B	-	
Coho Paving Ltd.	Alternate A	722,735.86	
	Alternate B	949,639.86	
Project S-1824 - Asphalt Surfacing 1983-84: Miscellaneous Paving in Nelson Area, Highway 3, 3A, 3B and 6 (36.80 km)			
H. Williamson Blacktop and Landscaping Ltd.		994,980.00	Awarded
LeDuc Paving Ltd.		1,220,002.00	
Peters Bros. Paving (1981) Ltd.		1,338,900.00	
Coho Paving Ltd.		1,539,654.80	
Columbia Bitulithic Ltd.		1,654,650.00	

Paving - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project S-1843 - Asphalt Surfacing 1983-84: Bigmouth Creek to Mica Damsite Section, Revelstoke-Mica Highway 23 (36.6 km)			
Peters Bros. Paving (1981) Ltd.	Alternate A	947,395.00	Awarded
	Alternate B	-	
Columbia Bitulithic Ltd.	Alternate A	1,139,700.00	
	Alternate B	1,272,190.00	
H. Williamson Blacktop and Landscaping Ltd.	Alternate A	1,139,753.00	
	Alternate B	1,283,923.00	
Venture Paving Ltd.	Alternate A	1,174,245.40	
	Alternate B	1,328,025.40	
LeDuc Paving Ltd.	Alternate A	1,227,840.00	
	Alternate B	-	
Coho Paving Ltd.	Alternate A	1,248,297.20	
	Alternate B	-	
Peter Kiewit Sons Co. Ltd.	Alternate A	1,248,374.00	
	Alternate B	-	
Central Paving and Engineering Ltd.	Alternate A	1,424,620.00	
	Alternate B	-	
Project S-2398 - Asphalt Surfacing 1983-84: Westside Road, Kelowna Highway District, km 17.8 to km 22.9 (5.1 km)			
Westlake Paving and Aggregates Ltd.		199,199.97	Awarded
Midvalley Construction Co.		228,986.00	
Peters Bros. Paving (1981) Ltd.		235,745.00	
Cantex Engineering and Construction Co. Ltd.		286,769.00	
LeDuc Paving Ltd.		355,988.00	
Project S-0084-2903 - Asphalt Surfacing 1983-84: Graded Seal Coat Aggregate in Stockpile for Highway 23, and Big White Road			
D.M.J. Construction Ltd.		91,000.00	Awarded
Enderby Gravel Products Ltd.		123,000.00	
L.R. Wyles Trucking Ltd.		143,000.00	

Bridges

Project B-0566 - Contract No. 1: Trail C.P.R. Underpass No. 2672, Trail Pipeline Underpass No. 2673, Trail-Tadanac Relocation and Excavation, Highway 22, Alternate B			
Jaemar Construction Co. Ltd.	Scheme "A"	739,513.00	
	Scheme "B"	713,313.00	Awarded
G.W. Carlson Construction Ltd.	Scheme "A"	815,286.00	
	Scheme "B"	744,814.00	
Braniff Construction Ltd.	Scheme "A"	824,501.00	
	Scheme "B"	750,001.05	
Manning Construction Ltd.	Scheme "A"	854,943.00	
	Scheme "B"	784,943.00	
Kenyon Construction Ltd.	Scheme "A"	869,672.00	
	Scheme "B"	850,672.00	
Bel Construction Ltd.	Scheme "A"	890,083.00	
	Scheme "B"	814,898.21	
Dan Preta Construction Ltd.	Scheme "A"	-	
	Scheme "B"	849,977.00	
Fame Construction Ltd.	Scheme "A"	823,852.45	
	Scheme "B"	-	
W.F.L. Construction Ltd.	Scheme "A"	976,085.00	
	Scheme "B"	898,081.00	
Verigin Industries Ltd.	Scheme "A"	887,834.33	
	Scheme "B"	-	

Bridges - Continued

Description of Work and Names of Tenderers			Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-0894 - Contract No. 1 - General: Annacis Moveable Bridge No. 2760, Pembina Road				
Sceptre-Riedel-Dawson Construction Ltd.			9,842,000.00	Awarded
Dillingham Construction Ltd.			10,363,014.00	
Brittain Steel Ltd.			10,418,187.00	
Fraser River Piledriving Co. Ltd.			10,526,597.00	
Pitts Engineering Construction (A Division of Banister Continental Ltd.)			10,555,939.00	
Armeco Construction Ltd.			10,625,053.00	
Northern Construction Co. Ltd.			11,294,153.00	
Goodbrand Construction			11,323,690.00	
Foundation Co. of Canada Ltd.			11,572,789.00	
Miller Contracting Ltd.			11,572,789.00	
Peter Kiewit Sons Co. Ltd.			11,601,979.00	
Van Construction (A Division of Van Vliet Construction Co. Ltd.)			11,654,408.60	
George Wimpey Canada Ltd.			13,416,501.06	
Commonwealth Construction Co. Ltd.			13,973,544.45	
Project B-0895 - Contract No. 1 - General: Annacis Bridge No. 2753, Annacis Highway Bridge Project				
P.C.L. Construction Ltd. - Paschen-Pike (Joint Venture)	Steel Alt.	36 month	45,754,806.00	Awarded
		30 month	45,754,806.00	
Foundation-Pitts-Shanska	Steel Alt.	36 month	47,885,877.00	
		30 month	48,135,877.00	
S.J. Groves & Sons Co. - Guy F. Atkinson Co. - Commonwealth Const.	Steel Alt.	36 month	47,908,188.00	
		30 month	47,908,188.00	
Peter Kiewit Sons Co. Ltd. - Northern	Steel Alt.	36 month	48,861,386.00	
		30 month	49,061,386.00	
Dillingham Corp. Canada Ltd. - J.A. Jones Construction Co.	Steel Alt.	36 month	50,280,000.00	
		30 month	50,280,000.00	
	Conc. Alt.	36 month	56,039,976.00	
		30 month	58,047,019.00	
Dominion Bridge Co. Ltd.	Steel Alt.	36 month	51,473,469.05	
		30 month	52,119,845.28	
Annacis Bridge Constructors	Steel Alt.	36 month	55,161,845.00	
		30 month	55,161,845.00	
Armeco Construction Ltd. & W.T.B. Bauaktiengesellschaft	Steel Alt.	36 month	56,843,273.00	
		30 month	56,843,273.00	
	Conc. Alt.	36 month	65,234,101.00	
		30 month	65,234,101.00	
Project B-1070 - Contract No. 1 - General: Swift Creek Bridge No. 2589, Valemount Secondary Road				
Theo Construction Ltd.		Scheme "A"	282,125.90	Awarded
		Scheme "B"	290,520.90	
Talus Construction Ltd.		Scheme "A"	333,156.78	
		Scheme "B"	347,805.78	
Inland Bridge Ltd.		Scheme "A"	352,334.20	
		Scheme "B"	362,240.20	
Manning Construction Ltd.		Scheme "A"	376,856.00	
		Scheme "B"	381,856.00	
Juniper Construction Ltd.		Scheme "A"	384,974.00	
		Scheme "B"	396,240.00	
Geddes Contracting Co. Ltd.		Scheme "A"	388,688.00	
		Scheme "B"	393,981.00	
Froese Bros. Excavation Ltd.		Scheme "A"	403,741.60	
		Scheme "B"	415,814.60	
Kingston Construction Ltd.		Scheme "A"	416,033.92	
		Scheme "B"	425,823.92	
G.W. Carlson Construction Co. Ltd.		Scheme "A"	419,931.00	
		Scheme "B"	427,477.00	
Crossroads Construction Co. Ltd.		Scheme "A"	428,215.00	
		Scheme "B"	439,215.00	

Bridges - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-1102 - Contract No. 2 - Steel Work and Deck: Greenville Bridge No. 2735, Greenville Access Road			
Brittain Steel Ltd.		2,688,997.00	Awarded
Dominion Bridge Co. Ltd.		2,714,050.00	
Goodbrand Construction Ltd.		2,716,294.00	
Great West Steel Industries Ltd.		2,779,741.00	
W.F.L. Construction Ltd.		2,786,000.00	
Walter Cabott Construction Ltd.		2,918,000.00	
Kenyon Construction Ltd.		3,049,000.00	
Hafer Machine Co. Ltd.		3,474,000.00	
Project B-1332 - Contract No. 1 - General: Koksilah River Bridge No. 632, Trans Canada Highway 1			
Wheaton Construction		971,825.00	Awarded
G.W. Carlson Construction Ltd.		1,043,570.00	
Dura Construction Ltd.		1,052,038.00	
Jaemar Construction Ltd.		1,072,929.00	
Farmer Construction Ltd.		1,098,868.00	
D. Robinson Contracting Ltd.		1,159,222.89	
N.T. Anderson Contracting Ltd. and Ansha Contracting Co. Ltd.		1,206,526.00	
Project B-1381 - Contract No. 1 - General: Cranberry River Crossing No. 1 - No. 2680; Cranberry River Crossing No. 2 - No. 2681, Kitwanga - Meziadin Lake Highway 37; Kitwancool Bridge No. 2693, Kitwancool Access Road, Scheme "B"			
Neils Thorvald Anderson Contracting Ltd.	Scheme "A"	1,347,194.50	
	Scheme "B"	1,669,694.50	Awarded
Senco Construction Ltd.	Scheme "A"	1,843,133.23	
	Scheme "B"	1,763,212.23	
Goodbrand Construction Ltd.	Scheme "A"	1,927,124.75	
	Scheme "B"	1,888,324.75	
Interior Contracting Co. Ltd.	Scheme "A"	1,827,795.20	
	Scheme "B"	1,757,795.20	
Braniff Construction Ltd.	Scheme "A"	-	
	Scheme "B"	2,012,120.00	
Project B-1402 - Contract No. 1 - General: Surprise Creek Bridge No. 2150; Cullen Creek Bridge No. 7623; Stewart-Cassiar Highway 37A			
Walter Cabott Construction Ltd.		1,296,231.84	Awarded
G.W. Carlson Construction Ltd.		1,318,212.00	
Kenyon Construction Ltd.		1,330,075.60	
Goodbrand Construction Ltd.		1,352,728.60	
Senco Construction Ltd.		1,380,710.99	
Kingston Construction Ltd.		1,399,130.14	
Braniff Construction Ltd.		1,416,853.60	
W.F.L. Constructors Ltd.		1,419,986.68	
Dura Construction Ltd.		1,466,047.00	
Geddes Contracting Co. Ltd.		1,578,611.56	
Project B-1670 - Contract No. 1 - General: Ekumsekum Creek Bridge No. 2238; Marigonish Creek Bridge No. 2239; Antigonish Creek Bridge No. 2240; Inver Creek Bridge No. 2241; Aberdeen Creek Bridge No. 2242; Terrace-Prince Rupert Bridges, Yellowhead Highway 16			
Senco Construction Ltd.		1,022,560.75	Awarded
Dura Construction		1,079,691.00	
Bastion Construction		1,126,941.00	
G.W. Ledingham Ltd.		1,273,379.67	
Kingston Construction		1,294,950.00	
G.W. Carlson Construction Ltd.		1,314,903.00	
Braniff Construction		1,330,882.00	
Interior Contracting Co. Ltd.		1,360,888.66	
George Wimpey Canada Ltd.		1,482,163.98	
Jaemar Construction Co. Ltd.		1,609,000.00	
Ansha Contracting Co. Ltd.		1,433,117.00	

Bridges - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-1677 - Contract No. 1 - General: Kamloops Bridge (North Thompson River) No. 2810, Highway 5 to Brocklehurst, Alternate "A"			
Hansa Construction Ltd.	Alternate "A"	5,548,601.00	Awarded
	Alternate "B"	5,498,601.00	
W.A. Stephenson Construction (1983) Ltd.	Alternate "A"	6,666,000.00	
	Alternate "B"	6,666,000.00	
Fraser River Piledriving Co. Ltd.	Alternate "A"	6,730,729.24	
	Alternate "B"	6,630,729.24	
George Wimpey Canada Ltd.	Alternate "A"	6,819,838.49	
	Alternate "B"	6,774,603.29	
Dillingham Construction Ltd.	Alternate "A"	6,839,452.10	
	Alternate "B"	6,779,452.10	
Cana Engineering Ltd.	Alternate "A"	6,848,123.00	
	Alternate "B"	6,793,123.00	
	Alternate "C"	6,673,123.00	
P.C.L. Construction Ltd.	Alternate "A"	6,936,000.00	
	Alternate "B"	6,866,000.00	
	Alternate "C"	6,923,000.00	
Pitts Engineering Construction (A Division of Banister Continental Ltd.)	Alternate "A"	7,005,253.70	
	Alternate "B"	6,855,253.70	
Goodbrand Construction Ltd.	Alternate "A"	7,211,722.00	
	Alternate "B"	7,111,722.00	
G.W. Carlson Construction Ltd.	Alternate "A"	7,365,600.00	
	Alternate "B"	-	
Peter Kiewit Sons Co. Ltd.	Alternate "A"	7,367,666.00	
	Alternate "B"	7,206,666.00	
Kenyon Construction Ltd.	Alternate "A"	7,556,593.00	
	Alternate "B"	-	
Northern Construction Ltd.	Alternate "A"	9,494,663.00	
	Alternate "B"	9,164,663.00	
Tonto Construction Ltd.	Alternate "A"	9,741,061.80	
	Alternate "B"	-	
The Foundation Company of Canada Ltd.	Alternate "A"	9,942,711.40	
	Alternate "B"	-	
Project B-1682 - Contract No. 1 - General: Middle Arm Bridge No. 6306, Sea Island Highway, Pile Protection			
Northwest Piledriving Ltd.		53,500.00	Awarded
	Alternate	47,500.00	
Fraser River Piledriving Ltd.		53,900.00	
	Alternate	50,000.00	
Can Dive Services Ltd.		59,500.00	
	Alternate	39,950.00	
Talus Construction Ltd.		63,140.00	
Dillingham Construction Ltd.		84,200.00	
Project B-1706 - Contract No. 1 - General: Cottonwood River Bridge No. 2587, Cassiar Highway 37			
Stikine Construction Ltd.		764,180.00	Awarded
Braniff Construction Ltd.		783,540.00	
Klondike Enterprises Ltd.		847,200.00	
G.W. Carlson Construction Ltd.		877,370.00	
Senco Construction Ltd.		890,697.00	
Jaemar Construction Co. Ltd.		908,000.00	
Kingston Construction Ltd.		973,894.00	
Dura Construction Ltd.		986,300.00	
Compass Construction Ltd.		1,075,999.00	
Goodbrand Construction Ltd.		1,130,142.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-1715 - Contract No. 1 - General: Bear River Bridge No. 2 - No. 7620, Bitter Creek Bridge No. 554, Stewart-Cassiar Highway 37A		
Bud's Trucking and Equipment Ltd.	1,496,586.00	Awarded
Kenyon Construction Ltd.	1,572,782.00	
Jaemar Construction Co. Ltd.	1,583,730.00	
Braniff Construction Ltd.	1,611,294.00	
Walter Cabott Construction Ltd.	1,627,602.00	
Goodbrand Construction Ltd.	1,646,598.00	
Senco Construction Ltd.	1,667,021.95	
W.F.L. Construction Ltd.	1,674,615.00	
Kingston Construction Ltd.	1,721,090.00	
Dura Construction Ltd.	1,721,446.00	
G.W. Carlson Construction Ltd.	1,781,535.00	
Project B-1716 - Contract No. 1 - General: Gibson Road Underpass No. 2730 and Approaches, Trans Canada Highway 1, Scheme "B"		
J.C. Kerkhoff & Sons Construction Ltd. Scheme "A"	1,274,901.89	
Scheme "B"	1,206,292.77	Awarded
Van Den Brink Bros. Scheme "A"	1,290,192.85	
Scheme "B"	1,231,321.85	
Miller Contracting Ltd. Scheme "A"	1,395,506.00	
Scheme "B"	1,347,206.00	
M.D.M. Enterprises Ltd. Scheme "A"	1,414,689.90	
Scheme "B"	1,357,957.90	
Project B-1717 - Contract No. 1 - General: Lemieux Creek Bridge No. 6250, Little Fort-Cariboo Highway 24		
Juniper Construction Ltd.	414,759.00	Awarded
Braniff Construction Ltd.	424,248.00	
Jaemar Construction Ltd.	457,977.00	
Kingston Construction	662,040.75	
Theo Construction Ltd.	467,390.50	
Talus Construction Ltd.	465,342.95	
Inland Bridge Ltd.	488,331.45	
G.W. Carlson Construction Ltd.	546,550.00	
Miller Contracting Ltd.	550,955.00	
Kenyon Construction Ltd.	553,093.00	
Ansha Contracting Ltd.	564,601.00	
Project B-1734 - Contract No. 1 - General: Koksilah Pedestrian Overpass No. 2737, Trans Canada Highway 1		
Argenta Contracting Ltd.	258,822.00	Awarded
D. Robinson Contracting Ltd.	270,910.06	
Farmer Construction Ltd.	278,928.00	
Dura Construction Ltd.	288,319.00	
J.C.R. Construction Ltd.	318,744.00	
Builen Construction Ltd.	321,690.05	
G.W. Carlson Construction Ltd.	334,177.00	
Wheaton Construction Ltd.	334,276.00	
Deacon Developments Ltd.	339,271.00	
Talus Construction Ltd.	344,523.72	
Project B-1736 - Contract No. 1 - General: Passmore Bridge No. 0780, Passmore Upper Road, Slocan Park Bridge No. 1398, Slocan Valley West Road		
Interior Contracting Co. Ltd.	1,132,734.60	Awarded
Kenyon Construction Ltd.	1,223,316.00	
Braniff Construction Ltd.	1,254,004.36	
Dan Fretz Construction Ltd.	1,380,288.00	
Jaemar Construction Co. Ltd.	1,386,790.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-1733 - Contract No. 1 - General: Interurban Overpass No. 2728, McKenzie Avenue, Victoria		
Campbell Construction Ltd.	1,447,892.51	Awarded
Dura Construction Ltd.	1,538,720.15	
Bullen Construction Ltd.	1,568,599.98	
Wheaton Construction Ltd.	1,588,288.00	
Farmer Construction ltd.	1,648,700.00	
Chew Excavating	1,657,783.16	
N.T. Anderson Construction & Ansha Contracting Ltd.	1,736,378.30	
Project B-1794 - Contract No. 1 - General: Texas Creek Bridge No. 1076, Four-laning, Trans Canada Highway 1		
Talus Construction Ltd.	187,963.05	Awarded
G.W. Carlson Construction Ltd.	228,982.00	
Action Construction & Surveying Services Ltd.	235,343.71	
M.D.M. Enterprises Ltd.	235,529.00	
Manning Construction Ltd.	286,852.00	
Inland Bridge Ltd.	395,164.17	
Project B-1803 - Contract No. 1 - Pile Driving Test: Boston Bar Bridge No. 1535, Boston Bar Access Road		
Fraser River Pile Driving Co. Ltd.	86,800.00	Awarded
Project B-1823 - Contract No. 1 - General: Creston-Porthill Bridge No. 1 No. 944, Creston-Rykerts Highway		
Quadra Construction Co. Ltd.	450,848.50	Awarded
Senco Construction Ltd.	528,298.96	
Jaemar Construction Co. Ltd.	551,007.00	
Dura Construction Co. Ltd.	573,350.50	
G.W. Carlson Construction Ltd.	596,380.00	
Anvil Construction Ltd.	602,225.00	
Braniff Construction Ltd.	638,061.00	
Kenyon Construction Ltd.	660,842.00	
Walter Cabott Construction Ltd.	671,520.00	
W.F.L. Construction Ltd.	679,746.00	
Kingston Construction Co. Ltd.	685,208.00	
Interior Contracting Ltd.	755,081.90	
Geddes Contracting Ltd.	817,041.90	
Project B-1827 - Contract No. 1 - General: Cape Horn Flyover No. 2749, Cape Horn Overpass No. 2 No. 628, Widening, Cape Horn Interchange, Lougheed Highway 7		
Grimwood Construction Co. Ltd.	662,440.40	Awarded
Interland Contractors Ltd.	691,461.30	
Sefton Contractors Ltd.	706,000.00	
Interior Contracting Co. Ltd.	754,375.52	
Manning Construction Ltd.	761,281.60	
Jaemar Construction Ltd.	763,588.00	
Van Construction (A Division of Van Vliet Construction)	773,661.94	
Kingston Construction Ltd.	784,493.07	
Goodbrand Construction Ltd.	788,208.20	
Miller Contracting Ltd.	791,288.40	
Walter Cabott Construction Ltd.	793,668.60	
Hanas Construction Ltd.	794,099.44	
Wheaton Construction Ltd.	817,481.00	
Van Bourne Construction Ltd.	841,960.42	
M.D.M. Enterprises Ltd.	1,042,108.02	
Project B-2131 - Cleaning and Painting Courtenay River Bridge No. 0455, Island Highway 19		
Clark and Pattison Painting Contractors Ltd.	72,000.00	Awarded
Excel Painting and Decorating Ltd.	73,285.00	
Seaside Painters and Sandblasters Inc.	87,343.00	
Vancouver Island Corrosion Control, Inc.	94,350.00	
Summer Decorators Ltd.	97,500.00	
Kerschbanner Coatings Inc.	124,930.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-2182 - Contract No. 1 - General: Hosmer Bridge No. 361, Highway 3, Sidewalk Addition		
Max Helmer Construction Ltd.	72,500.00	Awarded
Solid Rock Steel Fabricating Co. Ltd.	79,875.00	
Columbia River Steel Services Ltd.	79,998.00	
Maloney Steel Ltd.	83,394.00	
Kingston Construction Ltd.	91,260.00	
Inland Bridge Ltd.	91,924.00	
Project B-2300 - Contract No. 1 - Substructure: Fort Nelson River Bridge No. 2607, Fort Nelson-Fort Simpson Highway		
Quadra Construction Co. Ltd.	1,245,270.00	Awarded
Senco Construction Ltd.	1,758,696.38	
Fraser River Pile Driving Co. Ltd.	1,816,140.00	
Hansa Construction Ltd.	1,865,053.00	
W.A. Stephenson Construction (Western) Ltd.	1,879,754.00	
Dura Construction Ltd.	1,977,000.00	
W.F.L. Constructors Ltd.	2,145,839.00	
Interior Contracting Co. Ltd.	2,181,811.00	
Dillingham Construction Ltd.	2,239,492.00	
Peter Kiewit Sons Co. Ltd.	2,481,408.00	
G.W. Carlson Construction Ltd.	3,391,639.00	
Project B-2305 - Contract No. 2 - Abutments and Superstructure: Kirby Creek Bridge No. 1172, West Coast Highway 14		
Scansa Construction Ltd.	201,400.00	Awarded
Farmer Construction Ltd.	211,577.00	
G.W. Carlson Construction Ltd.	211,670.00	
Alternate	198,670.00	
Wheaton Construction Ltd.	212,000.00	
Campbell Construction Ltd.	214,983.00	
Alternate	201,415.00	
Project B-2347-0001: Boston Bar Bridge No. 1535, Removal, Supply and Erection of Steelwork, Boston Bar to North Bend Access; Silver Tip Falls Bridge No. 1391; Carnes Creek Bridge No. 1534; Mars Creek Bridge No. 1430; Downie Creek Bridge No. 857; Bigmouth Creek Bridge No. 1095, Revelstoke-Mica Highway 23		
Brittain Steel Ltd.	3,083,686.00	Awarded
Dominion Bridge Co. Ltd.	3,799,000.00	
Surrey Iron Works Ltd.	4,126,000.00	
Project B-2347-0002 - Contract No. 2 - Substructure: Boston Bar Bridge No. 1535, Boston Bar to North Bend Access		
Kenyon Construction Ltd.	2,435,656.00	Awarded
Hansa Construction Ltd.	2,438,810.00	
Dillingham Construction Ltd.	2,478,453.95	
Goodbrand Construction Ltd.	2,590,614.00	
W.A. Stephenson Construction (Western) Ltd.	2,648,845.00	
Miller Contracting Ltd.	2,737,630.00	
G.W. Carlson Construction Ltd.	2,893,885.00	
Jaemar Construction Co. Ltd.	3,096,517.00	
Review Construction Inc.	3,963,075.00	
Quadra Construction Co. Ltd.	4,631,113.00	

Bridges - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-2348 - Contract No. 1 - General: Patricia Boulevard Overhead No. 2815, Highway 16, Alternate "B"			
Crossroads Construction Co. Ltd.	Alternate "A"	689,735.65	
	Alternate "B"	624,814.65	Awarded
Kingston Construction Ltd.	Alternate "A"	703,629.00	
	Alternate "B"	697,629.00	
Manning Construction Ltd.	Alternate "A"	741,983.00	
	Alternate "B"	707,183.00	
Viking Construction Ltd.	Alternate "A"	767,790.60	
	Alternate "B"	719,037.00	
Walter Cabott Construction Ltd.	Alternate "A"	750,136.00	
	Alternate "B"	730,136.00	
Theo Construction Ltd.	Alternate "A"	685,122.00	
	Alternate "B"	759,739.00	
Hansa Construction Ltd.	Alternate "A"	827,736.00	
	Alternate "B"	778,312.00	
Kenyon Construction Ltd.	Alternate "A"	738,868.00	
	Alternate "B"	784,862.00	
Senco Construction Ltd.	Alternate "A"	795,019.00	
	Alternate "B"	799,519.00	
Jaemar Construction Co. Ltd.	Alternate "A"	849,148.60	
	Alternate "B"	828,011.60	
Stikine Construction Ltd.	Alternate "A"	824,930.00	
	Alternate "B"	832,987.00	
Wayne Watson Construction Ltd.	Alternate "A"	938,307.00	
	Alternate "B"	941,684.00	
Interior Contracting Co. Ltd.	Alternate "A"	926,703.20	
	Alternate "B"	944,703.20	
Quadra Construction Co. Ltd.	Alternate "A"	796,571.00	
	Alternate "B"	1,034,571.00	
G.D. Shaw Construction Ltd.	Alternate "A"	1,370,722.40	
	Alternate "B"	1,594,722.40	
Project B-2349 - Contract No. 1 - General: Old Yale Road Underpass No. 2818, Highway 11			
Van Bourne Construction		501,250.00	Withdrawn
Jaemar Construction Co. Ltd.		674,255.50	Awarded
M.D.M. Enterprises Ltd.		674,989.00	
River Construction Ltd.		689,760.10	
Kingston Construction Ltd.		696,159.54	
Bel Construction Ltd.		697,500.00	
Numan Industries Ltd.		698,880.00	
Walter Cabott Construction Ltd.		702,086.00	
Manning Construction		713,864.00	
Grieve Contracting Ltd.		719,380.00	
Hansa Construction		735,078.00	
Wheaton Construction Ltd.		736,960.00	
G.W. Carlson Construction Ltd.		763,399.00	
Mutual Construction Ltd.		764,539.60	
Meta Construction Ltd.		769,531.00	
Senco Construction Ltd.		779,614.00	
Kenyon Construction Ltd.		781,881.00	
Project B-2369: Walcott Footbridge No. 904, Walcott Road No. 153, Replacement of Towers			
Stan Brooks Contracting Ltd.		73,332.00	Awarded
Bud's Trucking & Equipment Ltd.		95,000.00	
N.C. Contractors, Div. of North Cariboo Building Products		127,340.00	
Walter Cabott Construction Ltd.		151,375.00	
G.W. Carlson Construction Ltd.		195,053.00	
Jaemar Construction Co. Ltd.		247,000.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-2393: Clanwilliam Overhead No. 354: Trans Canada Highway Hanger and Portal Street Repairs		
Valley Tool (1977) Ltd.	25,333.00	Awarded
Hitec Steel Construction Ltd.	30,351.00	
Sigma Steel and Engineering Ltd..	47,972.00	
Dominion Bridge - Vancouver, a Unit of AMCA International Ltd.	50,630.00	
Columbia River Steel Services Ltd.	55,581.00	
Project B-2395 - Contract No. 1 - General: Pentieton Channel Parkway, Railway Underpass No. 2470, Pentieton Parkway, Highway 97		
Kenyon Construction Ltd.	680,313.85	Awarded
Kanata Construction Ltd.	685,591.00	
Walter Cabott Construction Ltd.	689,928.00	
Interior Contracting Co. Ltd.	723,834.70	
Four Edges Ventures Ltd.	768,487.00	
G.W. Carlson Construction Ltd.	964,922.00	
Kingston Construction Ltd.	982,613.80	
Project B-2420 - Contract No. 1 - General: Buttle Narrows Bridge No. 7321, Highway 28		
Knappett Construction Ltd.	932,865.00	Awarded
G.W. Carlson Construction Ltd.	943,105.00	
Walter Cabott Construction Ltd.	1,052,109.00	
Interland Contractors Ltd.	1,057,493.60	
Manning Construction Ltd.	1,076,194.00	
D. Robinson Contracting Ltd.	1,139,189.00	
Jaemar Construction Co. Ltd.	1,150,968.00	
J.C. Kerkhoff & Sons Construction Ltd.	1,155,296.06	
Quadra Construction Co. Ltd.	1,162,984.00	
Goodbrand Construction Ltd.	1,205,541.00	
Project B-2428 - Contract No. 1 - General: Kamloops Junction Overhead No. 2811, Kootenay Road Underpass No. 2813, Highway 5 to Brocklehurst		
Walter Cabott Construction Ltd.	1,072,478.70	Awarded
Theo Construction Ltd.	1,088,451.30	
G.W. Carlson Construction Ltd.	1,099,065.00	
Knappett Construction Ltd.	1,113,123.66	
Juniper Construction Ltd.	1,160,887.25	
Miller Contracting Ltd.	1,195,287.25	
Kingston Construction Ltd.	1,207,843.15	
Kenyon Construction Ltd.	1,212,304.96	
Interior Contracting Co. Ltd.	1,243,749.22	
Bastion Construction (1981) Ltd.	1,262,657.00	
Greyback Construction Ltd.	1,290,256.63	
P.C.L. Construction Ltd.	1,344,965.00	
W.F.L. Construction Ltd.	1,347,512.50	
Kanata Contracting Ltd.	1,481,471.11	
Tonto Construction Ltd.	1,565,299.00	
G.D. Shaw Construction	1,682,752.65	
Peter Kiewit Sons Co. Ltd.	1,945,192.00	
Project B-2436: Balfour Kootenay Bay Ferry Terminals, General, - Steel Loading Ramps		
Solid Rock Steel Fabricating	392,144.00	Awarded
Maloney Steel Ltd.	400,476.00	
Max Helmer Construction Ltd.	427,700.00	
Brittain Steel Ltd.	431,888.00	
Spring Point Management (Kettle Valley Construction)	439,100.00	
Ramsey Machine Works Ltd.	479,560.00	
Canron Inc., Western Bridge Division	581,789.00	
Dominion Bridge - A Unit of A.M.C.A. International Ltd.	618,860.00	
Valley Tool (1977) Ltd.	644,277.00	

Bridges - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project B-2450 - Pile Driving and Load Test, Annacis Highway		
Franki Canada Ltd.	169,668.00	Awarded
Sceptre - Riedel - Dawson Construction Ltd.	382,820.00	
Project B-2452 - Montizambert Creek Bridge No. 1446, Garibaldi Highway 99		
Interland Contractors Ltd.	893,199.24	Awarded
Theo Construction (1983) Ltd.	894,325.80	
Kingston Construction Ltd.	950,479.15	
G.W. Carlson Construction Ltd.	954,753.00	
Brittain Steel Ltd.	973,743.30	
Jaemar Construction Co. Ltd.	977,914.00	
M.D.M. Enterprises Ltd.	984,202.00	
Miller Contracting Ltd.	992,000.00	
Goodbrand Construction Ltd.	1,012,298.50	
Interior Contracting Co. Ltd.	1,026,345.90	
Knappett Construction Ltd.	1,047,744.00	
Seville Construction Co. Ltd.	1,056,261.95	
Talus Construction Ltd.	1,090,115.90	
J.C. Kerkhoff & Sons Construction Ltd.	1,139,075.25	
W.A. Stephenson Construction (Western) Ltd.	1,143,000.00	
Riedel Construction Ltd.	1,286,475.00	

Gravel Crushing

Project M-1795: Asphalt Cold Mix in Stockpile:		
Contract 1: Auger, G.N. Pit and Rock Creek Yard, Grand Forks Highway District		
Cantex Engineering and Construction Co. Ltd.	35,700.00	Awarded
Peters Bros. Paving (1981) Ltd.	36,750.00	
Contract 2: Jaffray Highways Yard, Highway 3, Fernie Highway District		
B.A. Blacktop (Cranbrook) Ltd.	15,250.00	Awarded
Cantex Engineering and Construction Co. Ltd.	40,000.00	
Coho Paving Ltd.	48,730.00	
Contract 3: Godey Pit, Logan Lake East Pit, Wright Pit, Merritt and Penticton Highway District		
Don Troy Paving Ltd.	58,000.00	Awarded
Dawson Construction Ltd.	78,310.00	
B.A. Blacktop Kamloops	83,160.00	
Peters Bros. Paving (1981) Ltd.	89,600.00	
Cantex Engineering and Construction Co. Ltd.	96,800.00	
Rorison-Wiley Blacktop Ltd.	121,360.00	
Contract 4: Copper Valley Pit and Anderson Pit, Lillooet Highway District		
Don Troy Paving Ltd.	46,200.00	Awarded
Rorison-Wiley Blacktop Ltd.	56,520.00	
B.A. Blacktop (Kamloops) Ltd.	57,420.00	
Dawson Construction Ltd.	59,956.00	
Cantex Engineering and Construction Co. Ltd.	80,600.00	
Contract 5: Powell River and Texada Island Maintenance Yards, Gibsons Highway District		
Coast Paving Ltd.	39,708.00	Awarded
Winvan Paving Ltd.	43,440.00	
Contract 6: Gibsons and Madeira Park Maintenance Yards, Gibson Highway District		
B.A. Blacktop (A Corporate Partnership)	34,560.00	Awarded
Winvan Paving Ltd.	36,760.00	

Gravel Crushing - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Contract 7: Yahk Pit 35220, Cranbrook Highway District		
B.A. Blacktop (Cranbrook) Ltd.	9,135.00	Awarded
Cantex Engineering and Construction Co. Ltd.	14,500.00	
Creston Valley Asphalt Services Ltd.	29,000.00	
Project M-1832: Crushed Granular Aggregate in Stockpile:		
Contract 1: Snass Creek Pit P1589, Florence Pit 1501, Agassiz Pit P1549A, Chilliwack Highways District		
Enderby Gravel Products Ltd.	157,650.00	Awarded
Cantex Engineering and Construction Co. Ltd.	164,540.00	
Inland Contracting and Sweeping Ltd.	167,780.00	
Webb and Trace Ltd.	173,880.00	
A. & M. Johnson Contracting Ltd.	243,920.00	
T.R. Crushing Ltd.	247,500.00	
Contract 2: Othello Pit 1552, Chilliwack Highways District		
Ptarmigan Gravel Ltd.	90,750.00	Awarded
Inland Contracting and Sweeping Ltd.	97,880.00	
T.R. Crushing Ltd.	105,850.00	
A. & M. Johnson Contracting Ltd.	111,600.00	
Enderby Gravel Products Ltd.	149,960.00	
Webb and Trace Ltd.	156,450.00	
Contract 3: Lakeview Pit P3508B, Cranbrook Highways District		
Sholinder & MacKay Sand and Gravel	69,570.00	Awarded
T.R. Crushing Ltd.	95,700.00	
Inland Contracting and Sweeping Ltd.	101,640.00	
Cantex Engineering and Construction Co. Ltd.	109,500.00	
Winvan Paving Ltd.	114,660.00	
Ptarmigan Gravel Ltd.	115,500.00	
Enderby Gravel Products Ltd.	132,240.00	
D.M.J. Construction Ltd.	134,280.00	
Contract 4: Ruby Lake Pit 1267A, Gibsons Highway District		
Fiedler Bros. Contracting Ltd.	97,150.00	Awarded
Inland Contracting and Sweeping Ltd.	143,800.00	
Contract 5: Pedley Lake Pit 4261, Quesnel Highway District		
Inland Contracting and Sweeping Ltd.	58,900.00	Awarded
Langley Lo-Cost Builders Ltd.	96,200.00	
Geddes Contracting Co. Ltd.	107,500.00	
W.E. Robertson Construction	113,200.00	
T.R. Crushing Ltd.	115,200.00	
Contract 6: Honeymoon Creek Pit P4124K, Prince George Highway District		
T.R. Crushing Ltd.	117,500.00	Awarded
Langley Lo-Cost Builders Ltd.	146,500.00	
Geddes Contracting Co. Ltd.	160,000.00	
W.E. Robertson Construction Co.	169,000.00	
Inland Contracting and Sweeping Ltd.	183,500.00	
C. & R. Contracting (1975) Ltd.	283,000.00	
Contract 7: Keremeos Pit 2406, Penticton Highway District		
Cantex Engineering and Construction Co. Ltd.	95,440.00	Awarded
Inland Contracting & Sweeping Ltd.	95,990.00	
Geddes Contracting Ltd.	101,550.00	
Langley Lo-Cost Builders Ltd.	103,990.00	
Dawson Construction Ltd.	124,000.00	
Winvan Paving Ltd.	125,660.00	
D.M.J. Construction	134,760.00	
T.R. Crushing Ltd.	137,100.00	
Ptarmigan Gravel Ltd.	145,750.00	

Gravel Crushing - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Contract 8: Logan Lake East Pit P2553, Merritt Highway District		
Ptarmigan Gravel Ltd.	96,250.00	Awarded
Cantex Engineering and Construction Co. Ltd.	121,250.00	
Langley Lo-Cost Builders Ltd.	127,750.00	
Dawson Construction Ltd.	130,750.00	
Inland Contracting & Sweeping Ltd.	132,750.00	
T.R. Crushing Ltd.	170,500.00	
Contract 9: Chukar Pit P2524, Merritt Highway District		
E. & M. Crushing Ltd.	74,580.00	Awarded
Langley Lo-Cost Builders Ltd.	96,800.00	
Ptarmigan Gravel Ltd.	107,800.00	
T.R. Crushing Ltd.	107,800.00	
Geddes Contracting Co. Ltd.	114,400.00	
Dawson Construction Ltd.	121,000.00	
Winvan Paving Ltd.	140,800.00	
Inland Contracting & Sweeping Ltd.	172,920.00	
Contract 10: Walloper Pit P2556, Merritt Highway District		
Inland Contracting and Sweeping Ltd.	84,750.00	Awarded
Ptarmigan Gravel Ltd.	87,500.00	
D.M.J. Construction Ltd.	98,000.00	
Dawson Construction Ltd.	112,500.00	
T.R. Crushing Ltd.	131,250.00	
Cantex Engineering and Construction Co. Ltd.	133,250.00	
Langley Lo-Cost Builders Ltd.	137,250.00	
Contract 11: Rusty Pit P2546, Merritt Highway District		
Inland Contracting and Sweeping Ltd.	55,350.00	Awarded
Ptarmigan Gravel Ltd.	56,250.00	
D.M.J. Construction Ltd.	58,200.00	
Dawson Construction Ltd.	73,500.00	
Cantex Engineering and Construction Co. Ltd.	74,850.00	
Geddes Contracting Co. Ltd.	81,000.00	
T.R. Crushing Ltd.	85,200.00	
Langley Lo-Cost Builders Ltd.	89,550.00	
Contract 12: Spius Pit P2545, Merritt Highway District		
Langley Lo-Cost Builders Ltd.	56,500.00	Awarded
Ptarmigan Gravel Ltd.	70,000.00	
Dawson Construction Ltd.	77,500.00	
Cantex Engineering and Construction Co. Ltd.	77,700.00	
Inland Contracting and Sweeping Ltd.	89,600.00	
Contract 13: Cortes and Quadra Islands, Courtenay Highway District		
Jack Cewe Ltd.	252,600.00	Awarded
Construction Aggregates Ltd.	253,200.00	
Contract 14: Wilde Pit P4468, Fort St. John Highway District		
Lorean Enterprises Inc.	65,550.00	Awarded
T.R. Crushing Ltd.	72,000.00	
Inland Contracting and Sweeping Ltd.	94,950.00	
Langley Lo-Cost Builders Ltd.	96,300.00	
Goodbrand Construction Ltd.	104,250.00	
Contract 15: Pickerell Stockpile Site P4495, Fort St. John Highway District		
Lorean Enterprises Inc.	52,250.00	Awarded
T.R. Crushing Ltd.	52,500.00	
Langley Lo-Cost Builders Ltd.	79,125.00	
Goodbrand Construction Ltd.	87,125.00	
Inland Contracting and Sweeping Ltd.	125,000.00	

Gravel Crushing - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Contract 16: Petitot River Stockpile Site, Fort St. John Highway District		
S.R.M. Ventures Inc.	169,000.00	Awarded
Cyro Gravel and Concrete Ltd.	183,300.00	
Lorman Enterprises Inc.	191,100.00	
Langley Lo-Cost Builders Ltd.	206,050.00	
Inland Contracting and Sweeping Ltd.	273,650.00	
General Enterprises	351,000.00	
Contract 17: Pinko Pit P4136, Prince George Highway District		
W.E. Robertson Construction Co. Ltd.	54,750.00	Awarded
D.M.J. Construction Ltd.	58,200.00	
Pittman Asphalt Co. Ltd.	73,650.00	
Enderby Gravel Products Ltd.	83,400.00	
Langley Lo-Cost Builders Ltd.	85,050.00	
Inland Contracting and Sweeping Ltd.	101,700.00	
Contract 18: Gosnel Pit P4653, McBride Highway District		
Kildala Land Development Co. Ltd.	148,000.00	Awarded
Cantex Engineering & Construction Co. Ltd.	167,700.00	
Inland Contracting and Sweeping Ltd.	183,900.00	
Langley Lo-Cost Builders Ltd.	184,000.00	
Ptarmigan Gravel Ltd.	195,000.00	
Contract 19: Tinsley Pit P4643, McBride Highway District		
D.M.J. Construction Ltd.	63,200.00	Awarded
Kildala Land Development, Hammerquist Sons Contracting	79,000.00	
Ptarmigan Gravel Ltd.	79,000.00	
Cantex Engineering & Construction Co. Ltd.	85,600.00	
W.E. Robertson Construction Co. Ltd.	86,000.00	
T.R. Crushing Ltd.	90,000.00	
Inland Contracting and Sweeping Ltd.	97,400.00	
Langley Lo-Cost Builders Ltd.	109,200.00	
Enderby Gravel Products Ltd.	146,000.00	
Contract 20: Bainbridge Pit P6385A, Port Alberni Highway District		
Gord Don Trucking Ltd.	129,400.00	Awarded
Webb & Trace Ltd.	166,600.00	
Inland Contracting and Sweeping Ltd.	197,200.00	
Contract 21: Padgett Pit P1235B, Gibson Highway District		
Rod Warman Contracting	36,400.00	Awarded
Coast Paving Ltd.	52,400.00	
Fiedler Bros. Contracting Ltd.	99,400.00	
Contract 22: 9 Mile Pit P5403C, Smithers Highway District		
Kildala Land Development Co. Ltd.	57,600.00	Awarded
L.B. Paving Ltd.	65,520.00	
Enderby Gravel Products Ltd.	98,880.00	
Inland Contracting and Sweeping Ltd.	111,360.00	
E. & M. Crushing Ltd.	116,800.00	
Farico Contracting Ltd.	120,000.00	
W.E. Robertson Construction Co. Ltd.	131,840.00	
Contract 23: Lasqueti Island Maintenance Yard, Port Alberni Highway District		
Jack Cewe Ltd.	57,240.00	Awarded
Construction Aggregates Ltd.	59,200.00	
Contract 24: Peterson-Scott Pit P2113, Kamloops Highway District		
Ptarmigan Gravel Ltd.	48,750.00	Awarded
D.M.J. Construction Ltd.	58,200.00	
Cantex Engineering and Construction Co. Ltd.	72,600.00	
Dawson Construction Ltd.	72,750.00	
Langley Lo-Cost Builders Ltd.	88,650.00	
Enderby Gravel Products Ltd.	120,750.00	
Inland Contracting and Sweeping Ltd.	133,050.00	

Gravel Crushing - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Contract 25: Charleson Pit, Salmon Arm Highway District		
Points-West Equipment Ltd.	27,300.00	Awarded
Salmon Arm Ready Mix Ltd.	39,300.00	
Ptarmigan Gravel Ltd.	40,000.00	
Enderby Gravel Products Ltd.	46,000.00	
Cantex Engineering and Construction Co. Ltd.	47,000.00	
Langley Lo-Cost Builders Ltd.	59,300.00	
Inland Contracting and Sweeping Ltd.	60,300.00	
Dawson Construction Ltd.	67,300.00	
Contract 26: Scotty Creek Pit P2616, Lillooet Highway District		
Ptarmigan Gravel Ltd.	84,000.00	Awarded
Inland Contracting and Sweeping Ltd.	103,750.00	
Miller Contracting Ltd.	141,750.00	
Dawson Construction Ltd.	142,000.00	
Enderby Gravel Products Ltd.	187,500.00	
Contract 27: Pit No. 1, P5251 and Crescent Pit P5250, Terrace Highway District		
Kildala Land Development Co. Ltd.	104,750.00	Awarded
L.B. Paving Ltd.	117,500.00	
Inland Contracting and Sweeping Ltd.	127,500.00	
Webb and Trace Ltd.	138,600.00	
T.R. Crushing Ltd.	139,250.00	
Kentron Construction Ltd.	143,100.00	
16-25 Transport Ltd.	160,300.00	
Langley Lo-Cost Builders Ltd.	178,150.00	
Miller Contracting Ltd.	182,750.00	
Columbia Bitulithic Ltd.	183,840.00	
Enderby Gravel Products Ltd.	220,450.00	
Contract 28: Moir Pit P3557A, Cranbrook Highway District		
Louis Salvador and Son Ltd.	70,470.00	Awarded
Miller Contracting Ltd.	73,225.00	
Sholinder and MacKay Sand and Gravel Ltd.	86,445.00	
Winvan Paving Ltd.	90,900.00	
Inland Contracting and Sweeping Ltd.	108,000.00	
Cantex Engineering and Construction Co. Ltd.	108,530.00	
Langley Lo-Cost Builders Ltd.	127,710.00	
Contract 29: Supply and Deliver on Saltspring, Pender, and Saturna Islands, Saanich Highway District		
Construction Aggregates Ltd.	118,820.00	Awarded
Jack Cewe Ltd.	149,980.00	
Contract 30: Twin Roads, McLure and Six Mile Pits, Burns Lake Highway District		
L.B. Paving Ltd.	133,300.00	Awarded
W.E. Robertson Construction Co. Ltd.	163,100.00	
Inland Contracting and Sweeping Ltd.	163,750.00	
Kildala Land Development Co. Ltd.	169,750.00	
D.M.J. Construction Ltd.	199,100.00	
Miller Contracting Ltd.	223,000.00	
Enderby Gravel Products Ltd.	266,000.00	
Langley Lo-Cost Builders Ltd.	276,100.00	
Contract 31: Godey Pit, Merritt Highway District		Awarded by District

Gravel Crushing - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Contract 32: Boyes Creek Pit P2676, Lillooet Highway District		
D.M.J. Construction Ltd.	32,800.00	Awarded
Cantex Engineering and Construction Co. Ltd.	39,000.00	
Ptarmigan Gravel Ltd.	39,700.00	
E. & M. Crushing Ltd.	49,500.00	
Enderby Gravel Products Ltd.	51,500.00	
Kildala Land Development Co. Ltd.	52,000.00	
Langley Lo-Cost Builders Ltd.	53,100.00	
Inland Contracting and Sweeping Ltd.	58,900.00	
Contract 33: Forestry Pit 1510, Chilliwack Highway District		
Inland Contracting and Sweeping Ltd.	89,700.00	Awarded
D.M.J. Construction Ltd.	99,400.00	
Enderby Gravel Products Ltd.	99,800.00	
E. & M. Crushing Ltd.	104,700.00	
Langley Lo-Cost Builders Ltd.	114,400.00	
Cantex Engineering and Construction Co. Ltd.	148,900.00	
Columbia Bitulithic Ltd.	168,700.00	
Contract 34: Silver Creek Pit P1577 and Ford Pit P1534, Chilliwack Highway District		
E. & M. Crushing Ltd.	161,500.00	Awarded
Miller Contracting Ltd.	181,000.00	
Columbia Bitulithic Ltd.	211,000.00	
Ptarmigan Gravel Ltd.	222,500.00	
Okanagan Aggregates Ltd.	230,700.00	
Points-West Equipment Ltd.	232,700.00	
Meta Construction Ltd.	295,000.00	
Contract 35: Supply and Deliver Crushed Granular Aggregate in Stockpile to Saltspring, Pender, Mayne, Galiano and Saturna Islands, Saanich and the Islands Highway District		
Construction Aggregates Ltd.	218,750.00	Awarded
Jack Cewe Ltd.	323,505.00	
Project M-3511 - Crushed Granular Aggregate in Stockpile:		
Contract 1: Bulger Pit P1558B, Chilliwack Highway District		
Okanagan Aggregates Ltd.	38,900.00	Awarded
D.M.J. Construction Ltd.	44,500.00	
Columbia Bitulithic Ltd.	48,700.00	
E. & M. Crushing Ltd.	48,900.00	
Cantex Engineering and Construction Co. Ltd.	55,000.00	
Miller Contracting Ltd.	64,500.00	
Contract 2: Pierce Creek Pit P1550C, Chilliwack Highway District		
Gord Don Trucking Ltd.	131,500.00	Awarded
Cantex Engineering and Construction Co. Ltd.	136,300.00	
Columbia Bitulithic Ltd.	137,700.00	
Ptarmigan Gravel Ltd.	149,000.00	
Miller Contracting Ltd.	157,000.00	
Okanagan Aggregates Ltd.	186,600.00	

Miscellaneous

Project C-1864 - Construction of Weigh Scale Station at Sparwood, Highway 3		
Bonic Development Ltd.	98,613.00	Awarded
Schwab Enterprises	126,717.00	
Bill Carlson Building Services Ltd.	128,778.00	
Rosmac Construction Ltd.	136,804.00	
L. Steiner Construction Ltd.	139,861.00	
Olsen Construction Ltd.	145,062.00	
Burns and Whyte Construction Ltd.	152,000.00	

Miscellaneous - Continued

Description of Work and Names of Tenderers		Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project D-1805 - Landscape Development, Sta. 767+00 to Westside Road, Kelowna, Highway 97			
West-Wind Nursery		60,997.00	Awarded
Cedar Crest Lands (B.C.)		71,932.00	
Vic's Landscaping Ltd.		72,392.85	
Holland Landscaping Ltd.		72,899.15	
Dave's Landscaping Ltd.		79,818.50	
Joe Brum Landscaping		91,178.00	
Kelowna Turf Farms		100,921.00	
Project D-1808 - Landscape Development, Westside Road to Kelowna Bridge, Highway 97			
Holland Landscapers Ltd.		62,136.75	Awarded
Vic's Landscaping Ltd.		66,437.06	
Cedar Crest Lands (B.C.)		67,274.90	
West-Wind Nursery		70,000.00	
Dave's Landscaping Ltd.		73,727.30	
Kimoff Landscaping Ltd.		78,492.50	
Joe Brum Landscaping		82,450.00	
Kelowna Turf Farms		98,683.60	
Project D-1819 - Landscape Development of Williams Lake Arterial on Cariboo Highway 97, Carson Drive to Lakeview Crescent, Alternate "B"			
Kelowna Turf Farms	Alternate "A"	86,857.40	
	Alternate "B"	108,472.40	Awarded
Cedar Crest Lands (B.C.) Ltd.	Alternate "A"	98,290.40	
	Alternate "B"	137,900.40	
Peterson Contracting Ltd.	Alternate "A"	101,772.20	
	Alternate "B"	121,968.20	
Richbar Nursery Ltd.	Alternate "A"	105,351.00	
	Alternate "B"	136,536.00	
West-Wind Nurseries Ltd.	Alternate "A"	107,994.00	
	Alternate "B"	140,169.00	
B.A. Blacktop Kamloops	Alternate "A"	108,555.60	
	Alternate "B"	142,225.60	
Dave's Landscaping Ltd.	Alternate "A"	113,792.00	
	Alternate "B"	123,602.00	
Holland Landscapers Ltd.	Alternate "A"	120,630.00	
	Alternate "B"	179,700.00	
Project D-2491 - Landscape Development, Development Road to Allenby Road, Duncan, Trans Canada Highway			
Kimoff Landscaping Ltd.		17,305.00	Awarded by District
Project D-3714 - Contract No. 3: Landscape Development of Bradner Rest Area, Matsqui			
Haw-Can Construction Ltd.		37,490.20	Unit Prices Omitted for Items 8-1a to 2h
Modern Grounds Maintenance Ltd.		40,894.91	Awarded
Kimoff Landscaping Ltd.		41,292.50	
Jeckway Landscaping (1983) Ltd.		43,450.29	
Van der Zalm Construction		43,496.10	
L. Mierau Construction Ltd.		45,362.86	
T. Moscone & Bros. Landscaping Ltd.		48,596.35	
Cedar Crest Lands (B.C.) Ltd.		49,111.67	
Murray Nurseries Ltd.		53,210.37	
Dave's Landscaping Ltd.		53,811.49	
Holland Landscapers Ltd.		54,366.55	
Joe Brum Landscaping Ltd.		56,006.88	

Miscellaneous - Continued

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Project J-3056 - Noxious Weed Control on Highway 3 Right-of-way, Warner to Crowsnest Pass (130 km)		
B. & W. Agricultural Services Ltd.	29,437.50	Recalled
Kootenay Livestock Association	29,970.00	
Western Weed Control 1980 Ltd.	30,332.00	
Cedardale Tree Services Ltd.	54,666.00	
Project J-3056 - Noxious Weed Control on Highway 3 Right-of-way, Warner to Crowsnest Pass (130 km)		
Interior Reforestation Co. Ltd.	7,245.00	Awarded
B. & W. Agricultural Services Ltd.	22,915.00	
Western Weed Control 1980 Ltd.	23,600.00	
Kootenay Livestock Association	26,400.00	
Peter M. Kelly	32,970.70	

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
REGION 1							
North Vancouver	C-2091	Garibaldi Highway 99	Horseshoe Bay North	-	Completion of M Creek Bridge approaches		100%
	C-2092	Grafton Rd. & Adams Rd.	Bowen Island	4.6	Patch paving		100%
	C-2093	Garibaldi Highway 99	Furry Creek/Britannia Hill	3.0	Completion of Project C-1479		100%
	C-2094	Highway 99-Green Lake Section	Alpine Drive to Pemberton	27.3	Improve drainage and widen		70%
	C-2465	Highway 99	Horseshoe Bay to Squamish	Var.	Patch paving		100%
	C-2466	Squamish Valley Road	Through I.R. #1	8.0	Regravelling		100%
	C-2467	Lillooet Lake Road	Total length	10.0	Regravelling		100%
	C-2468	Duffey Lake Road		3.0	Regravelling		100%
	C-2469	Pemberton Portage Road	Various locations	3.0	Sight distance improvements		100%
	C-2470	Highway 99	km 68.5	-	Improve alignment and site distance		100%
	C-2472	Garibaldi Park Road	Various locations	5.0	Drainage improvements and gravelling		100%
	N-0368	Highway 99	Horseshoe Bay to Britannia	-	Guardrail replacement		100%
	W-2238	Trans Canada Highway	Second Narrows to Capilano	-	Chain link fencing		100%
Gibsons	C-0118	Various Roads-Gibsons District	Minor betterments	-	Reconstruction, ditching, gravelling, paving, bridge reconstruction	May/83	100%
	C-2095	Highway 101 and Lower Rd. Intersection	300 m either side of intersection	0.6	Reconstruction, widening, paving	Oct/83	100%
	C-2096	Malaspina Road	0.5 km to 3.7 km	3.7	Paving	July/83	100%
	C-2097	Henderson Road	Total length	0.6	Reconstruction	May/83	100%
	C-2098	Port Mellon Highway	Various sections 0.8 km - 6.0 km	1.0	Widen shoulders	Dec/83	100%
	C-2099	Craig Road	Total length	1.0	Reconstruction	Aug/83	100%
	C-2101	Gillies Bay Subdivision	Various roads - total length	1.7	Paving	May/83	100%
	C-2102	Centennial Drive	Total length	0.6	Paving	June/83	100%
	C-2474	Sunshine Coast Highway	Various sections	3.0	Major patching	Mar/83	100%
	C-2475	Powell River Area	Various sections on several roads	10.0	Ditching, shouldering, gravelling	Feb/84	100%
	C-2476	Gibsons Area	Various sections on several roads	20.0	Ditching, shouldering, gravelling	Feb/84	100%
	C-2477	Madeira Park Area	Various sections on several roads	10.0	Ditching, shouldering, gravelling	Feb/84	100%
	C-2478	Gibsons Area	Various roads	10.0	Brushing	Mar/84	100%
	C-2479	Powell River Area	Various roads	20.0	Brushing	Feb/84	100%
	C-2480	Sunshine Coast Highway	Madeira Park area	4.0	Shoulder buildup	Feb/84	100%
	N-0369	Sunshine Coast Highway	Madeira Park area	0.6	Install guardrail	Aug/83	100%
New West-minster	C-0488	Canada Way	Canada Way at Burris	0.6	Reconstruction for channelization	Apr/83	100%
	C-2104	Glover Road	Route 1 to Rawlinson Crescent	1.2	Reconstruction for widening, alignment and grade revision	Apr/83	100%
	C-2105	Pacific Highway Route 15	16th Avenue to 32nd Avenue	3.8	Reconstruct for truck lane	Dec/83	35%
	C-2106	Trans Canada Highway	Willingdon Interchange Eastbound On-Ramp	0.35	Reconstruct for grade improvements	July/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
New Westminster (cont'd)	C-2107	Lougheed Highway Route 7	Lougheed at Bell Avenue	0.9	Reconstruct for channelization	July/83	100%
	C-2108	Sunnyside Road	East Road to Anmore	1.5	Reconstruct, widen & improve grade	June/83	100%
	C-2109	Trans Canada Highway	Deer Lake Interchange, Westbound Off-Ramp and Kensington Avenue	0.8	Reconstruct, grade and recap	Aug/83	100%
	C-2376	Route 13	South of Route 1 at Vancouver Game Farm	-	Drainage improvement, new box culvert	Aug/83	100%
	C-2381	Westminster Highway	No. 6 Road to No. 8 Road	3.0	Reconstruct, grade and recap	Sept/83	100%
	C-2481	Westminster Highway	No. 8 Road east to Nelson	1.5	Reconstruct, grade and recap	Mar/84	100%
	C-2482	Route 13	Fraser Highway to 0 Avenue	6.0	Shoulder pave	Mar/84	100%
	C-2483	Route 1A Fraser Highway	Route 99 to 190th Street	9.0	Shoulder pave	Mar/84	100%
	C-2484	Trans Canada Highway	Port Mann Weigh Scale	2.0	Reconstruct, widen	Mar/84	100%
Chilliwack	C-0156	Hemlock Valley Road	Morris Valley Road to Ski Hill	14.8	Drainage improvements and widening in various areas in preparation for paving	Apr/83	100%
	C-0804	Rockwell Drive	km 4.4 to km 6.2	1.8	Recap 0.6 km and new pavement 1.2 km	May/83	100%
	C-1776	S.T.P.	km 36.5 to km 38.8	2.3	Construct and pave 4th lane	Apr/83	100%
	C-1776A	S.T.P.	km 98 to km 98.5	0.5	Realign and widen	June/83	100%
	C-2110	Chilliwack Lake Road	Various locations	4.3	Recap 1.3 km and new pavement 3 km	May/83	100%
	C-2111	Stave Lake Road	Municipal boundary to Dale Road	0.85	Reconstruct and pave	June/83	100%
	C-2112	Kawkawa Area Roads (Hope)	Various locations	2.41	Reconstruct and pave	June/83	100%
	C-2113	Rosedale and Cultus Lake Roads	Various locations	2.02	Pave various short roads	June/83	100%
	C-2114	Morris Valley Road	Lougheed Highway to Elbow Creek	1.2	Reconstruct and pave	July/83	100%
	C-2115	Sumas Mountain Road	km 1.2 to km 2.0	0.8	Clear and grub new alignment	Sept/83	100%
	C-2116	T.C.H. and S.T.P.	Various locations		Brushing	May/83	100%
	C-2117	Clearbrook Road Interchange	Clearbrook Road and T.C.H.	1.0	Construction new westbound ramps	May/83	100%
	C-2119	S.T.P.	Various locations	1.65	Recap	Aug/83	100%
	C-2121	Columbia Valley Highway	Sunnyside Park to Entrance Way	1.9	Recap and widen existing surface	May/83	100%
	C-2485	Nicomen Island Trunk and North Nicomen Road	Various locations	2.1	Recap 1.0 km and new asphalt 1.1 km	Mar/84	100%
	C-2487	Columbia Valley Highway	Marina realignment	1.0	Clear and grub new alignment	Mar/84	100%
	C-2488	T.C.H.	American Creek to Gordon Creek		Ditching various locations	Mar/84	100%
	C-2489	Airport and Yale Road	Vicinity of Hope Airport	2.3	Regravel	Mar/84	100%
	C-2490	Hatzic Lake Area	Various locations	0.6	Raise to prevent future flooding	Mar/84	100%
	C-2498	Columbia Valley Highway	Frost Creek Bridge Northeast along lake	3.0	Recap and widen	Mar/84	100%
	C-2499	Chilliwack Lake Road	km 2.35 to km 5.25	2.91	Recap and widen	Mar/84	100%
	C-0120A	Cultus Lake Minor Betterments	Cultus Lake Foreman Area		Various minor improvements	May/83	100%
	C-0120B	Abbotsford Minor Betterments	Abbotsford Foreman Area		Various minor improvements	May/83	100%
	C-0120C	Boston Bar Minor Betterments	Boston Bar Foreman Area		Various minor improvements	May/83	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Chilliwack (cont'd)	C-0120D	Mission Minor Betterments	Mission Foreman Area		Various minor improvements	May/83	100%
	C-0120E	Rosedale Minor Betterments	Rosedale Foreman Area		Various minor improvements	May/83	100%
	C-0120F	Agassiz Minor Betterments	Agassiz Foreman Area		Various minor improvements	May/83	100%
	C-0120G	Hope Minor Betterments	Hope Foreman Area		Various minor improvements	May/83	100%
	C-0120H	Allison Pass Minor Betterments	Allison Pass Foreman Area		Various minor improvements	May/83	100%
	C-0120I	District Minor Betterments	Throughout district		Various minor improvements	May/83	100%
REGION 2 Kamloops	C-0123	Various Roads	Various roads within Kamloops District	180.5	Widening of roads and shoulders, gravelling & paving. Also 1027 m of ditch constructed; 64 m of culvert, 201 m of fence, 119 m guardrail and 3 cattleguards installed.	Apr/83	100%
	C-0814	Agate Bay Road 0525	km 7.8 to km 10.8	3.0	Finish gravelling prior to paving and some minor paving	May/83	100%
	C-0814A	Barriere Lakes Road 0697	km 9.8 to km 16.8		Overage from Project C2195	July/83	100%
	C-2192	T.C.H.	Segment 920 - km 47.75 to km 51.16, km 56.31 to km 60.7	7.8		Apr/83	100%
	C-2194	Lac Le Jeune Road 2775	km 5.23 to km 5.98	0.75	Realignment	Aug/83	100%
	C-2195	Various Roads Barriere					
		- Barriere Lakes Road 0697	km 9.8 to km 16.8	7.5	Finish gravelling prior to paving	July/83	100%
		- Barriere East Road 0694	km 0.0 to km 0.5				
	C-2316	Bridge Lake Road 24	Segment 1749 - km 98.54 to km 99.19	0.6	Reconstruct grade of bridge approaches for new Lemieux Creek #3 Bridge	Apr/83	100%
	C-2514	Clearwater Valley Road 1214	km 26.1 to km 28.0	1.9	Reconstruct grade between Fight Creek Bridges #1 and #2	July/83	90%
	N-0373	Various Roads	Various roads within the Kamloops District	617 m	Guardrail installation of 253 pieces	Sept/83	
	W-0344	Various Schedule 2 Highways	Various Schedule 2 Highways within the Kamloops District	30.85	Repaired and replaced 30,845 m of fence and installed 11 cattleguards	Apr/83	
Salmon Arm	C-0124A	Sorrento Eagle Bay 671	km 23.0 to km 25.35	2.35	Gravelled	May/83	100%
		Parri 55	km 0.0 to km 1.6	1.6	Gravelled	Apr/83	100%
		Ford 55	km 0.41 to km 0.75	0.34	Gravelled	Apr/83	100%
		Vella 449	km 0.0 to km 0.80	0.80	Gravelled	Aug/83	100%
		Mobley 26	km 1.75 to km 3.46	1.71	Gravelled and ditched	Apr/83	100%
		Tappe Notch Hill 29	km 0.0 to 0.8 and km 1.20 to 3.0	2.6	Brushed, ditched and gravelled	Apr/83	100%
		Pullen 406	km 0.0 to 0.19	0.19	Fenced, ditched and gravelled	July/83	100%
		Wrights Mill 32	km 0.24 to 0.54	0.3	Gravelled, ditched and turnaround	July/83	100%
		Dunn 112	End of road		Rock work	Sept/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Salmon Arm (cont'd)	C-0124A	Dieppe 168			Turnaround	Sept/83	100%
		Hannett 691			Turnaround	Oct/83	100%
	C-0124B	Bailey 442	km 1.29 to km 1.49	0.2	Regravelled		100%
		Squilax - Turtle Valley 447	km 2.63 to km 4.93	2.3	Widened and gravelled		100%
		Shimikin 30	km 15.6 to km 16.8	1.2	Widened and gravelled		100%
	C-0124C	Douglas Lake 292	km 20.0 to km 23.0	3.0	Widened, gravelled and additional rock cut widening	Mar/83	100%
	C-0124D	Imai 370	km 0.3 to km 0.4	0.1	Gravelled		100%
		Butters 436	km 0.0 to km 0.89	0.89	Gravelled		100%
		Ashe 510	km 0.0 to km 0.45	0.45	Gravelled		100%
		Saratoga 433	km 0.0 to km 0.37	0.37	Gravelled		100%
		Ross Creek Flats 161	km 0.0 to km 0.32	0.32	Gravelled		100%
		Ashe Crescent 336	km 0.0 to km 0.7	0.7	Gravelled		100%
	C-0124D	Leopold 145	km 0.0 to km 0.4	0.4	Gravelled		100%
		Lucerne Beach 308	km 0.57 to km 0.72	0.15	Reconstructed and gravelled	Aug/83	100%
		Bequelin 137	km 0.1 to km 0.8	0.7	Reconstructed and gravelled		100%
	C-0124E	Graham 627	km 0.0 to km 0.2	0.2	Gravelled		100%
		Cemetary 620	km 0.69 to km 1.13	0.44	Gravelled		100%
		Payne 655	km 0.0 to km 0.54	0.54	Gravelled		100%
		Leaf 638	km 0.0 to km 0.55	0.55	Regravelled		100%
		Triple R 847	km 0.0 to km 0.31	0.31	Regravelled		100%
		Bundus 443	km 0.0 to km 0.67	0.67	Regravelled		100%
		Delaney 622	km 0.0 to km 0.2	0.2	Regravelled		100%
		Van Gilder 673	km 0.0 to km 0.3	0.3	Regravelled		100%
		McLean Sawmill 651	km 0.0 to km 1.2	1.2	Regravelled		100%
		Warner 676	km 0.0 to km 0.7	0.7	Regravelled		100%
		Mara West 50	km 0.0 to km 0.8	0.8	Regravelled		100%
		Old Spallumcheen 4	km 1.45 to km 2.55	1.1	Regravelled		100%
	C-0124F	Heywood-Armstrong 341	km 4.83 to km 5.83	1.0	Road mixed	June/83	100%
	C-1463	T.C.H. at Lybarger 639	km 24.6 to km 25.0	0.4	Rebuilt south side of T.C.H. for a left turn slot	May/83	100%
	C-2196	T.C.H. at Cedar Heights	km 50		Widened ditch at rock cut along T.C.H.	Oct/83	100%
	C-2197	Area A Slide Repairs	Tappen Valley Road Slip		Stabilization of slip area	June/83	100%
	C-2198	Squilax-Turtle Valley 447	km 2.63 to km 4.93	2.3	Reconstructed road around slip area	June/83	100%
	C-2199	Salmon River 360	km 15.45		Kaiser Bridge approaches	July/83	100%
	C-2200	Skimikin 30	km 0.0 to km 1.7	1.7	Reconstructed to collector standards	Apr/83	100%
	C-2200	Skimikin 30	km 4.1 to km 6.9	2.8	Cleared, widened and gravelled		100%
	C-2203	(194B) Chase-Falkland 194	km 12.0 to km 17.4	5.4	Widened and Gravelled	May/83	100%
		Kamloops-Shuswap 223	km 21.0 to km 27.0	6.0	Regravelled		
		Hepburn 198	km 2.76 to km 3.89	1.13	Regravelled		

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Salmon Arm (cont'd)	C-2203	McNulty 231	km 1.76 to km 6.96	5.2	Widened and gravelled		
		Pinantan 227	km 3.28 to km 4.8	1.52	Widened and gravelled		
	C-2204	(194C) Chase-Falkland 196	km 30.36 to km 32.36	2.0	Widened and gravelled	May/83	100%
	C-2205	Squilax-Anglemont 446			Little Shuswap Road		100%
	C-2206	Samuelson 656, Maier Road 174	km 0.0 to km 1.6		R/W clearing		100%
	C-2206	Swan Beach 118	km 0.0 to km 0.4		R/W clearing and gravelling	June/83	100%
		Stadnicki 665	km 0.0 to km 0.16		R/W clearing and gravelling	June/83	100%
	C-2207	Miscellaneous			Pre-Engineering	May/83	100%
	C-2208	Miscellaneous			Gradall ditching	June/83	100%
	C-2374	Kamloops-Shuswap 223	Stewards Bluff		Rock blasting	Sept/83	100%
	C-2394	Vernon-Sicamous 97A	Mara Lake Slide		Rock slide stabilization - ongoing	Oct/83	100%
		Two Mile 512	km 0.0 to km 0.6	0.6	Road reconstruction		100%
		Poage Avenue 206			Culvert installation		100%
		Gill Road 172					
	C-2394A	Vernon-Sicamous 97A	Poage Avenue		Culvert replacement	Nov/83	100%
	C-2552	Kamloops-Shuswap 223		6.0	Widened and gravelled	Feb/84	100%
	C-2553	Barnhartvale 277			Widened and gravelled	Feb/84	100%
	S-0084	Vernon-Sicamous			Seal coating	May/83	100%
	S-1730	Miscellaneous Roads	Areas A, C and E		Paving	Sept/83	100%
	S-1730D	Chase-Falkland 194	Area C		Paving aggregate	Sept/83	100%
	S-1731	Squilax-Anglemont 446	km 0.0 to 16.8	16.8	Road preparation for paving	Aug/83	100%
	S-2206	Little Shuswap Lake 88	km 3.6 to km 6.0	2.4	Widened and gravelled	Apr/83	100%
Vernon		Okanagan Bench	km 0.0 to km 0.3	0.3	Hot mix asphalt on surface	June/83	100%
		Eastside		0.5	Hot mix asphalt on surface	June/83	100%
		Smith	km 0.0 to km 0.5	0.5	Hot mix asphalt on surface	May/83	100%
		Black Rock	km 0.0 to km 0.4	0.4	Hot mix asphalt on surface	June/83	100%
		Norquay	km 0.0 to km 0.1	0.1	Hot mix asphalt on surface	July/83	100%
		Hartnell		0.4	Hot mix asphalt on surface	July/83	100%
		244-4 Frontage	km 0.0 to km 0.3	0.3	Hot mix asphalt on surface	May/83	100%
		246-8 Frontage	km 0.0 to km 0.2	0.2	New road constructed, surfaced with hot mix asphalt	May/83	100%
		Peters	km 0.0 to km 0.1	0.1	Recap	June/83	100%
		Eastside		1.03	Recap	June/83	100%
		East Vernon	km 2.1 to km 2.35	0.25	Recap	May/83	100%
		B.X.	km 0.4 to 0.8 and km 1.1 to 1.5	0.8	Recap	May/83	100%
		Pottery	km 1.88 to km 2.33	0.45	Recap	May/83	100%
		Francis	km 0.0 to km 0.2	0.2	Recap	May/83	100%
		Pleasant Valley	km 0.65 to km 1.75	1.1	Recap	June/83	100%
		Thirty Ninth	km 0.0 to km 0.42	0.42	Recap	May/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Vernon (cont'd)	C-2133	Tronson Road	km 2.6 to km 2.7	0.02	Reconstructed rock curve	Apr/83	100%
	C-0468	Grandview Bench	km 5.8 to km 6.88	1.08	Relocation, reconstruction, gravel	June/83	100%
	C-2134	Trinity Valley Road	km 2.0 to km 2.29	0.29	Relocation, reconstruction, gravel	May/83	100%
	C-0467	Silver Star	km 11.07 to km 16.07	5.0	Reconstruct, hot mix asphalt on surface	June/83	100%
	C-0466	Lumby-Mabel Lake	km 27 to km 30.7	3.7	Relocate, reconstruct, widen and gravel	Apr/83	100%
	C-2132	Shuswap Falls	km 0.4 to km 0.79	0.39	Relocate, reconstruct, widen and gravel	May/83	100%
	C-2187	Crozier Junction	km 0.48 to km 4.79	4.31	Relocate, construct, gravel, new hot mix asphalt on surface	May/83	100%
		Highway 6 - 775R	km 0.0 to km 0.92	0.92	Reconstruct, widen & new hot mix asphalt	June/83	100%
		Glenmary	km 0.0 to km 0.7	0.7	Hot mix asphalt on surface	June/83	100%
		Redrock	km 0.0 to km 0.2	0.2	New road constructed, surfaced with hot mix asphalt	July/83	100%
		Westside	km 34.1 to km 42.3	8.2	Coldmix, gravel upgraded	June/83	100%
		Mountridge	km 0.0 to km 0.62	0.62	Gravel on surface	May/83	100%
Penticton	C-0475	Princeton-Summerland Road 40	km 15.5 to 34.7	15.0	Widen, realign and pave	1980	90%
	C-0475	Princeton-Summerland Road 40	km 34.7 to 35.2	0.6	Widen, realign and reconstruct	1981	85%
	C-2557 & C-3660	Kruger Hill-Highway 97	C.P.R. Crossing - West	5.1	Additional third lane	1978	100%
	C-0126B	Arlayne Road Kaleden	km .382 to .497	.115	Reconstruct, gravel and pave	1982	100%
	C-0126P	North Naramata Road	km 5.962 to 6.567	.605	Widen, reconstruct and gravel	1982	100%
	C-0182A	Parsons Road	km 0.0 to 1.335	1.335	Realign and reconstruct	1982	100%
	C-0126C	McLean Creek Road	km 2.986 to 3.761	.785	Realign, reconstruct and gravel	1982	90%
	C-0474B	2 Avenue Osoyoos	km .122 to km .377	.255	Reconstruction and gravel	1983	100%
	C-0205	Suicide Corner, Highway 3	km 19.278 to 19.592	.314	Realign, reconstruct and cold mix	1983	100%
	C-2211	Keremeos Bypass	km 0.0 to 0.65	.65	Widen and reconstruct	1982	100%
	C-2210	Matheson Creek Road	km 0.0 to km 0.71	.71	Reconstruct and pave	Mar/84	90%
	C-2210	North Naramata Road	km 0.0 to km 1.05	1.05	Reconstruct and pave	Mar/84	100%
Merritt	C-0127A	Sunshine Valley Road 76	km 0.0 to km 2.17	2.17	Reconstruct to crush grade, grade rev.	Apr/83	100%
			km 0.0 to km 1.15	(1.15)	Primed		
			km 0.0 to km 1.15	(1.15)	Fenced		
			km 1.37 to km 1.66	(0.29)	Rip Rap River		
	C-0127B	Coalmont Road 14	km 68.92 to km 70.58	1.66	Reconstruct to crush grade, grade rev.	July/83	100%
			km 68.35 to km 70.58		Fenced both sides		
	C-0127C	Coldwater Road 17	km 17.3 to km 19.6	2.3	Repave	Oct/83	100%
	C-0127D	Coalmont Bridge Approach 14	km 0.17 to km 0.34	0.17	Reconstruct, gravel and pavement	Apr/83	100%
			km 0.34 to km 0.46	0.12	Construction, bridge abutment, gravel pavement		
			km 0.51 to km 0.6	0.09			
			km 0.6 to km 0.75	0.15	Reconstruct, gravel (only)		

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Merritt (cont'd)	C-0127F	Lindley Creek 43	km 0.0 to km 0.45	0.45	Reconstruct and pave	June/83	100%
	Area D	Coalmont Road 14	km 0.0 to km 0.17	0.17	Reconstruction, gravel	Apr/83	100%
	C-2219	Coldwater Road 17	km 25.78 to km 26.78	1.0	Slide area and reconstruct	Oct/83	100%
	C-2558	Douglas Lake Road 25	km 20.84 to km 23.22	2.38	Reconstruct and realign	Mar/84 Feb/84	100%
	K-2502		km 25.25 to km 26.18	0.93	Reconstruct	Mar/84	
	C-2218	Botanie Creek Road 151	km 66.95 to km 68.38	1.43	Sealcoat	Oct/83	100%
			km 71.98 to km 77.42	5.44	Grind and seal coat hard as pavement		
	C-2217	Coalmont Road 14	km 10.72 to km 11.0	0.28	Reconstruct and realign (fill) culvert	Mar/84	65%
	K-2503						
	C-0127E		km 13.38 to km 13.89	0.51	Realign (hillside excavation)		
	C-0476	Meadow Creek Road 178	km 18.10 to 18.31; 20.42 to 20.52	0.31	Base preparation for new construction	Mar/84	
		Village Logan Lake Grid Road Access	km 0.0 to km 0.23	0.23	New construction to crush grade	Mar/84	100%
		Meadow Creek Road 178	km 1.75 to km 16.07	14.32	Reconstruct, pave	May/83	100%
			km 3.05 to km 16.07	13.02	Fencing both sides (part of project)		
	C-2213	Mamit Lake Road 46	km 39.15 to km 39.67	0.52	Reconstruct, gravel and pave Pipsuel Br.	Aug/83	100%
	C-2214	Lytton-Lillooet Highway 12	km 56.52 to km 56.56	0.04	Type C binwall left side	Nov/83	100%
	C-2212	T.C.H.	km 25.15 to km 25.29	0.14	Type A binwall right side	Aug/83	100%
	B-2294C	Merritt-Spences Bridge Road 8	km 40.96 to km 41.16	0.2	Reconstruct bridge approaches for Bailey bridge, gravel and pave	Mar/84	100%
	C-2215	Merritt-Spences Bridge Road 8	km 48.6 to km 48.9	0.3	Reconstruct, gravel, pave 10 mil Xing	July/83	100%
	C-2216	Merritt-Spences Bridge Road 8	km 2.46 to km 9.42	6.96	Shouldering and AC mix paving	July/83	100%
			km 42.65 to km 48.6	5.95	Shoulder, level course and pave		
			km 48.9 to km 57.75	8.85	Shoulder, level course and pave		
			km 57.75 to km 57.96	0.21	Reconstruct, realign, gravel and pave		
			km 57.96 to km 59.11	1.15	Shoulder, level course and pave		
			km 59.8 to km 61.73	1.93	Shoulder, level course and pave		
			km 61.8 to km 65.14	3.34	Shoulder, level course and pave		100%
			km 27.23 to km 27.42	0.19	Reconstruct, realign and rock blast	Mar/84	100%
			km 27.58 to km 27.61	0.03	Reconstruct, realign and rock blast		
			km 27.7 to km 27.91	0.21	Reconstruct, realign and rock blast		
			km 28.45 to km 28.67	0.22	Reconstruct, realign and rock blast		
	C-2458	T.C.H.	km 10.7 to km 10.72	0.02	Rock stabilization at Gladwin	Mar/84	100%
	N-0378	T.C.H.	km 29.88 to km 30.33	0.45	Big Horn Guardrail placement 960 mm	Oct/84	100%
	C-0476	Paska Lake Road 179	km 0.0 to km 0.15	0.15	Reconstruct, gravel	Aug/84	100%
	W-0349	Princeton-Merritt Highway 5	km 38.62 to 70.88	19.38	Schedule 2 Fencing	May/83	100%
		Merritt-Kamloops Highway 5	km 11.13 to km 56.93	43.07			

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Lillooet	C-2222	Texas Creek Road	km 5.13 to km 6.8	2.7	Reconstruct, widen and realign	Feb/84	100%
	C-0824	Highland Valley Road	km 10.9 to km 15.9	5.0	Reconstruct and realignment	Aug/83	20%
	C-2561	Drinkwater Road	km 4.6 to km 6.1	8	Reconstruction, regravelling	Feb/84	100%
		Barnes Lake Road	km 0.0 to km 4.6				
		14 Mile Frontage Road	km 0.0 to km 1.9				
	C-2563	Route 12B	km 63.8 to km 64.5	0.8	Reconstruction, reslope cuts	Feb/84	100%
	C-0825	Lillooet Pioneer Road	km 10.8 to km 13.7	2.9	Reconstruction, grade revision, gravel	Feb/84	100%
	C-2562	Back Valley Road	km 7.0 to km 12.0	5	Reconstruction, clearing,	Feb/84	100%
		Lower Hat Creek Road	km 30.7 to km 33.5	2.8	realignment		
	C-2564	Lillooet Pioneer Road	km 66.0 to km 82.0	0.5	Reconstruction, widen	Feb/84	100%
	C-0270	Gun Lake Road	km 13.5 to km 15.0	1.5	New construction, clear & grub, culvert	Aug/83	75%
	C-0825	Lillooet Pioneer Road	km 8.1 to km 10.8	2.5	Reconstruction, gravel, road mix pave	June/83	80%
	C-2220	Lillooet Station Hill	km 0.0 to km 0.2 (760R)	0.5	Reconstruction, realignment	Aug/83	100%
			km 0.0 to km 0.3 (662R)				
	C-2221	Loon Lake Road	km 0.0 to km 10.75 (128)	11.0	Reconstruction, realignment,	Apr/83	100%
			km 0.0 to km 0.3 (203)		grade revision		
	C-4170	Duffey Lake Road	km 0.0 to km 2.05	2.0	Reconstruction and mix paving	July/83	100%
100 Mile House	C-1475A	Spring Lake Road 377	Junction of Cariboo Highway 97 to km 4.8	4.8	Reditching, reshape road bed and gravel	June/83	100%
			km 6.8 to km 12.5	5.7	Reconstruction, right-of-way clearing, road bed widening, ditching and gravelling	June/83	100%
	C-1475B	Highway 24, 93 Mile-Little Fort	Various Locations	6.4	Reditching in preparation for paving	June/83	100%
		Horse Lake Road 371					
	C-1475C	Meadow Lake Road 79	km 6.0 to km 9.0	3.0	Road bed widening, ditching and	June/83	100%
			km 11.0 to km 23.0	12.0	gravelling		
			km 41.0 to km 58.0	17.0			
	C-1475D	Canim-Hendrix Lake Road 318	km 0.0 to 38.11	38.11	Routing of cracks and pavement	June/83	100%
		Canim Lake South Road 729	km 0.0 to km 2.6	2.6	crack sealing (17,100 lineal metres)		
		Eagle Creek Road 332	km 0.0 to km 0.4	0.4			
	C-2223	Lily Pad Lake Road 376	km 2.9 to km 6.3	3.4	New construction and ditching, road bed construction	May/83	100%
			km 0.0 to km 6.3	6.3	Gravelling	June/83	100%
		Tatton Road 403	km 4.0 km 6.0	2.0	Road bed widening, ditching & gravelling	June/83	100%
	C-2224	Timothy Lake Road 353	km 5.2 to km 7.2	2.0	Ditching and gravelling	June/83	100%
		Caverly Road 416	km 0.0 tim 4.4	4.4	Gravelling (19 mm crush)	June/83	100%
		Lac La Hache Station Road 351	km 0.0 to km 4.0	4.0	Gravelling (19 mm crush)	June/83	100%
	C-2225	Jesmond Road 126	km 3.3 to km 8.1	4.8	Reconstruction and realignment, road bed widening, ditching, grade revision and gravelling	June/83	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
100 Mile House (cont'd)	C-2226	108 Mile Area Roads	Various subdivision roads within within the 108 Mile Ranch	14.4	Ditching		70%
	C-2240	Eagle Creek Road 332	km 0.0 to km 25.45	16.0	Reshape road bed & gravel (19 mm crush)	July/83	100%
	C-2312	Cariboo Highway 97 and Fir Crest Road 663	km 133.31 of Cariboo Highway 97	25.45	Gravelling	Aug/83	100%
	C-2313	Canim-Hendrix Lake Road 318	km 29.2 of Canim-Hendrix Lake Road 318		Construction and paving of a standard left turn slot	June/83	100%
	C-2321	Helena Lake Road 116	km 6.6 to km 12.6	6.0	Installation of a 2,700 mm C.M.P. for Pedestrian Underpass	Aug/83	90%
	C-2565A	Meadow Lake Road 79	km 0.0 to km 15.0	15.0	Ditching and gravelling	Aug/83	100%
	C-2565B	Horse Lake Road 371	km 0.0 to km 3.2	3.2	Gravelling (19 mm crush)	Mar/84	100%
	C-2565C	Buffalo Creek Road 315	km 0.0 to km 1.12	1.12	Widen and gravel road shoulder	Mar/84	100%
					Road bed widening and gravelling	Mar/84	100%
Kelowna	C-1473	Route 97 and Oyama Road	Intersection	0.5	Construct and pave for left and right turn slots	June/83	100%
	C-1473	Route 97 and Trepenier Road	Intersection	0.5	Construct and pave for left and right turn slots	June/83	100%
	C-0130G & C-1472	Shannon Lake Road	Unpaved section	1.0	Reconstruct	June/83	100%
	C-1622	Highway 97, Shannon Lake Road Boucherie, Broadview North/South	Westbank Area	2.8	Pave and shoulder	Aug/83	100%
	C-3805	Benvoulin Road, Swainson Road, Dubbin Road	Within City	5.0	Reconstruct and pave	June/83	100%
	C-3805	Old Vernon, Spall Road, Harvey, Highway 33, Rutland Road00%	Within City	4.5	Recap and shoulder	May/83	100%
	C-1621	Hwy. 97: Berry Road - North Oceola - North, Commonwealth	Winfield Area	2.0	Recap	Oct/83	100%
	C-1621	Robinson Road, Davidson, Glenmore, Okanagan Centre, Oceola	Winfield Area	2.0	Recap and patch	Oct/83	100%
	C-2567	Wilson	Wilson Landing Area	1.0	Seal Coating		100%
	E-7912	Highway 97 and Banks Road	Intersection	0.25	Remove median and recap	May/83	100%
	E-2385	Highway 97 and Leckie Road	Intersection	0.25	Construct and recap right turn lane exit and entrance lanes	Oct/83	70%
	C-0130A	Lakha, Morrison, McKenzie, Latta, Swainson, Belgo, Lewis, Greystokes	Rutland Area	13.59	Seal Coat	Aug/83	100%
	C-0130B	Millard, Ballou, Crosby, Begbie, Yates, Galliano, Watson	Colemore Area	2.37	Seal Coat	Aug/83	100%
	C-0130C	Neid, Hughs, Barnaby, Frost, Grieve, Dall, Sealy	South East Kelowna and Mission Area	5.03	Seal Coat	Aug/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Kelowna (cont'd)	C-0130D	Taneda, Westside, Bartley, Scharf, Casa-Loma, Gellatly, Glenrosa, Seclusion Bay, Yorkton, Cox, Marshall, Pop, McIver	Westbank Area	6.0	Seal Coat	Aug/83	100%
	C-0130E	Rufli Road	Westbank Area	0.3	Reconstruct	Mar/84	100%
	C-0130H	Cemetery, Jim Bailey, Jardines Clement, Seymour, Finch, Amudsen, Oyama, Middlebench	Winfield Area	7.66	Seal Coat	Aug/83	100%
		Pyman Pit Rock Quarry	10,000 m^3 Riprap Material		Producing Riprap material for district	Mar/83	
	C-2566	Lodge Road, Greenhow Road, Dubbin, McKinley - Dewdney	Winfield Area	3.5	Reconstruct and pave	Mar/84	100%
	C-2566	Old Vernon, Scotty Creek, Highway 97 and Leckie, Hartman	Kelowna Area	5.5	Reconstruct and pave	Mar/84	100%
	C-2566	East Kelowna Road	Kelowna Area	1.5	Reconstruct and pave	Mar/84	80%
	C-2566	Brown, Ingram, Drought, Paynter, Rufli, Shelter, Butt	Westbank Area	4.0	Reconstruct and pave	Mar/84	100%
	C-2567	Roads Noted C-2566	Winfield Area	3.5	Shoulder gravel	Mar/84	100%
	C-2567	Roads Noted C-2566	Kelowna Area	5.5	Shoulder gravel	Mar/84	100%
	C-2567	East Kelowna Road	Kelowna Area	1.5	Shoulder gravel	Mar/84	100%
	C-2567	Roads Noted C-2566	Westbank Area	3.5	Shoulder gravel	Mar/84	100%
	C-2567	Shelter Road	Westbank Area	0.5	Shoulder gravel	Mar/84	100%
	W-0347	Highway 97	Peachland Area	4.0	Special deer fencing, Schedule 2	Jan/84	100%
	N-0376	Highway 97 and Highway 33	Several Locations	0.5	Guardrail program	Sept/83	100%
REGION 3 Nelson	C-2559 & C-1866	Nelson-Balfour Highway 3A	km 4.9 to km 5.3	0.4	Realign, widening and improve		100%
	C-2559 & C-1866	Nelson-Balfour Highway 3A	km 11.4 to km 11.7	0.3	Realign, widening and improve		100%
	C-1483 & C-1867	Bonnington Road	km 1.4 to km 2.4	1.0	Reconstruct, widen, grade revision		100%
	C-0131 & C-1868	Vallican Subdivision Roads	km 0.0 to km 1.5	1.5	New construction		100%
	C-0131	Wills Road	km 0.0 to km 0.4	0.4	New construction		60%
	C-0131	Erie Ross Spur Road	Miscellaneous	0.5	Widen and improve		100%
	C-1867	Thompson Road	km 0.0 to km 1.0	1.0	Reconstruct, widen, grade revision		100%
	C-1867	Bonnington Road	km 2.20 to km 2.4	0.2	Reconstruct, widen, grade revision		100%
	C-1867	Harrop Ferry Road	km 0.0 to km 0.2	0.2	Reconstruct, grade revision		100%
	C-1867	Curtis Road	km 0.0 to km 0.1	0.1	Realign, widen and improve		100%
	C-1868	Slocan River Road	km 6.5 to km 6.8	0.3	Realign, widen and improve		100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Nelson (cont'd)	C-1869	Rosebud Lake Road	km 3.7 to km 4.7	1.0	Widen and improve		100%
	C-1869	Emerald Road	km 0.0	1.5	Widen and improve		100%
	C-1868	Erie Ross Spur Road	km 1.8 to km 2.3	0.5	Widen and improve		100%
	C-1871	Highway 6 Claybrick Slide Repair	km 17.3 to km 17.6	0.3	Reconstruct, widen, grade revision		100%
	C-2505	Annable Street	km 0.0 to km 0.4	1.4	Widen and improve		100%
	C-2506	Glade Area Roads	Miscellaneous	0.3	Widen and improve		100%
	C-2507	Passmore Upper Road	km 5.2 to km 5.4	0.2	Reconstruct, widen, grade revision		100%
	C-2509	Curwen Road	km 0.4 to km 0.6	0.2	New construction		100%
	C-2508	Sheep Creek Road	km 3.0 to km 3.1	0.1	Widen and improve		100%
Rossland	C-1875	Seven Mile Dam Road	4 mil and 7 mile creeks	700 m	Rebuild fills and pave due to washouts	Apr/83	100%
	C-1877	Hetman, Lucas and Mason Roads & Webster School Intersection	Roads in Castlegar Area	2.6	New pavement	Sept/83	100%
	C-1878	Castlegar Ferry Ramps	Robson Terminal	60 m	New pavement	Sept/83	100%
	N-0382	Rossland-Peterson Highway 22 Rossland-Nancy Green Hwy. 3B	Warranted sections	700 m	Guardrail installation	Oct/83	100%
Grand Forks	C-0018	North Fork Road 30	km 0.0 to km 2.4 km 6.2 to km 15.8 km 30.0 to km 42.85	25.85	Base reconstruction and paving	Apr/83	100%
	C-1879	Gilpin Road 28	Various locations	1.7	Reconstruction, partial realignment	Apr/83	100%
	C-1880	Crowsnest Highway 3	km 0.0 Westlake Drive 17 km 0.0 Swanson 90 km 124.5 Crowsnest Highway 3	200 m	Widen highway to provide left turn lanes	Sept/83	100%
	C-1881	Hulme Road 217	km 0.0 to km 5.13	5.13	Reconstruction and partial realignment	May/83	100%
	C-1882	Rock Creek - Kelowna 33	Various locations	28.0	Reconstruct and widen shoulders	Apr/83	100%
	C-1883	Blythe - Rhone 118		5.0	Reconstruct	Aug/83	100%
	C-1884	Crowsnest Highway 3	Wilgress Rest Area, 18-20 km Crowsnest Highway 3	200 m	Widen highway to provide left turn lane	May/83	100%
	C-1885	Anaconda 1	km 0.5 to km 2.22	1.72	Reconstruct	July/83	100%
	C-1886	Numerous Roads	Various Locations	20.0	Seal Coat	Aug/83	100%
	C-1887	Crowsnest Highway 3	Various Locations	200 m	Plane and patch	July/83	100%
	C-1888	Christian Valley 43	km 39.4 to km 44.9	5.5	Reconstruct and realign	1983	100%
	C-2510	West Lake Drive 17	km 1.9 of Road 17	27.4 m	Construct binwall	Mar/84	100%
	N-0383	Crowsnest Highway 3 and Rock Creek/Kelowna Highway 33	Various locations	849 m	Shoulder preparation and install 849 m of 690 mm guardrail	Oct/83	100%
	W-0352	Crowsnest Highway 33 and Rock Creek/Kelowna Highway 33	Various locations	23.0	Construct, reconstruct or repair fence at 16 locations	Aug/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
New Denver	C-1488	Vernon-Slocan Highway 6	North of Fauquier	300 m	Reconstruction (gravelling)	Apr/83	95%
	C-1889	Balfour-Kaslo-Galena Bay 31	South of Kaslo	600 m	Reconstruction (realignment)	Apr/83	100%
	C-1890	Hot Springs Road 252	North of Nakusp	12.0	Reconstruction (widening)	Apr/83	100%
	C-1891	Vernon-Slocan Highway 6	South of Nakusp	1.0	Reconstruction (3rd lane)	Apr/83	100%
	C-1892	Kaslo-New Denver Highway 31A	East of New Denver	200 m	Reconstruction (realignment)	Apr/83	100%
	C-1893	Howser Station 143	North of Lardeau	2.0	Reconstruction (realignment)	Apr/83	100%
	C-1894	Vernon-Slocan Highway 6	North of New Denver	800 m	Reconstruction (realignment)	Apr/83	100%
	N-0384	Throughout District			Guardrail installation	May/83	100%
Cranbrook	C-1899	Cranbrook-Kimberley-Yahk Streets and Roads	Various Locations	13.1	4.1 km new double flushcoat 9.0 km reflush existing flushcoated roads	June/83	100%
	C-0135	Cranbrook Streets	Wardner Townsite	0.3	New construction	Nov/83	100%
	C-0135	Cranbrook-Kimberley Streets and Roads	Various Locations	6.9	Reconstruction - realignment, grade revision, widening and placement of 19 mm crush	May/83	100%
	C-1781	Pighin Road 72	km 4.6 to km 7.8	3.2	Reconstruction - realignment, grade revision & placement of 19 mm crush	Apr/83	100%
	C-1782	Kimberley Highway 95A	km 15.2 to km 18.5	3.3	Reconstruction - realignment, grade revision & placement of 19 mm crush	Apr/83	100%
	C-1895	Lazy Lake Road 32	km 1.0 to km 4.2 km 9.9 to km 11.1	4.4	Reconstruction, realignment, grade revision, and placement of 19 mm crush on the section from 1.0 km to 4.2 km	May/83	100%
	C-1896	Sheep Creek Road 40	km 0.8 to km 7.9	7.1	Reconstruction, widening, grade revision and placement of 19 mm crush	May/83	100%
	C-1897	Crowsnest Highway 3 and Kimberley Highway 95A Junction	Cranbrook North Interchange	1.6	New construction	Oct/83	70%
	C-1900	Mission-Wasa Low Road 16	km 0.0 to km 3.2	3.2	Placement of 19 mm Crush and Double Flushcoat	June/83	100%
	C-0205	Kimberley Arterial 558-R	Various Locations at Major Street Intersections		Installation of 12 concrete wheel chair drop curbs	Sept/83	100%
	C-1780	Crowsnest Highway 3	km 101.3 to km 101.7	0.4	Installation of 0.4 km of perforated culvert pipe adjacent to Highway 3	Apr/83	100%
Fernie	C-1902	Corbin Road 26	First & second railway crossings	0.6	Reconstruct, widening, grade revision	Aug/83	100%
	C-1903	Elk Valley Highway 43	Various Locations Between Sparwood and Elkford	15.0	Reconstruct, shoulder widening, ditching, sloping	May/83	100%
	C-1904	Fernie Area Roads	Miscellaneous Roads	10.6	Reconstruction, widening, strengthen base and shouldering	June/83	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Fernie (cont'd)	C-1905	Jaffray Area Roads	Miscellaneous Roads	1.5	Reconstruction, widening, strength base	June/83	100%
	C-1906	Elk Valley Highway and Balmer Drive	Junction with Balmer Drive and Elkford	0.4	Reconstruction, construct left turn slot and pave	Sept/83	100%
	C-1907	Fernie District Roads	Miscellaneous Roads	8.4	Reconstruction, prepare base, widen inverted prime	Aug/83	100%
	C-1908	Kikomun-Newgate 36	km 14.0 to km 16.7	2.7	Reconstruct, realign, grade revision	June/83	100%
	C-1909	Sparwood Weigh Scale	km 78.7, Segment 1395 - Crowsnest Highway 3		New construction, construct and pave new Weigh Scale site and widen Highway for left turn slots	Aug/83	100%
	C-1910	Elk Valley Highway 43	Junction with Intata Drive - Elkford	0.4	Reconstruction, construct and pave left turn slot	Aug/83	100%
	C-1911	Jaffray Area Roads	Miscellaneous Roads	17.0	Reconstruction; prepare base, widen and inverted prime	Aug/83	100%
	C-1912	Anderson Road, Legion Road	Fernie Area Roads	0.4	New construction, right-of-way clearing construct road	Mar/84	100%
	C-1913	Crowsnest Highway 3	Highway 3, Segment 1395				
			km 11.8 to km 12.5	0.7	Reconstruction; widening for passing lanes	Sept/83	50%
			km 24.5 to km 24.9	0.4			
	C-1036A		Fernie Yard		Sandblast and paint plow racks	May/83	100%
	C-1036B	Robinson Road 13	Railway Crossing	0.01	Remove cattleguard and pave	July/83	1%
	C-1036C	Highway 3	km 21.9, Segment 1395	0.10	Widen pullout at waterhole	June/83	90%
	C-1036D	Beech Avenue	West Fernie	200 m	Wooden culvert replacement	Sept/83	5%
	C-1036E	Rock Lake Road	km 0.0 to km 1.64	1.64	Reconstruction, widen, strengthen base	Aug/83	95%
	C-1036F	Highway 3 and 93	Sundry Locations	2.7	Repair fence damage	May/83	100%
	C-1036G	Highway 3	Big Sand Bridge		Remove and pour new concrete posts	May/83	100%
	C-1036H	Kikomun-Newgate 36	Sundry Locations	12.0	Apply liquid calcium chloride	May/83	100%
	C-1036I	Crowsnest Highway 3	Sundry Locations	0.7	Repair asphalt curb	July/83	100%
	C-1036J	Calthness and Gunderson Roads	All roads east of railway crossing	1.0	Major ditching and base preparation for paving	Aug/83	100%
	C-1036K	Elk Valley Highway 43	Sundry Locations	4.9	Repair damaged fence	May/83	100%
	C-1036L	Corbin Road 26	km 0.0 to km 22.0	22.0	Apply liquid calcium chloride	May/83	100%
	C-1036M	Highway 3 and Corbin Road	Junction Hwy. 3 and Corbin Road	0.4	Construct left turn lane	Aug/83	100%
	C-1036N	Corbin Road 26	1st and 2nd Railway Crossings	0.06	Pave two railway crossings	Sept/83	100%
	C-1036O	Fording Mine Road 1	km 0.0 to km 24.8	24.8	Purchase, install and maintain signs	May/83	100%
	C-1036P	Crowsnest Highway 3	Fernie-Elko	1.7	Crack sealing	Sept/83	100%
	C-1036Q	Crowsnest Highway 3	Tunnel	0.05	Pour concrete curb	Sept/83	100%
	C-1036R	Stephenson Road 173	Hosmer Creek		Water system repair	Oct/83	100%
	C-1036S	Crowsnest Highway 3	km 27.5, Segment 1395	0.1	Major ditching	Oct/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Golden	C-0137A	Thomas Road 309	km 3.7 km km 4.7	1.0	Reconstruction, widening, realignment grade revisions and gravelling	May/83	100%
	C-1492	Toby Cut Off Road 28	km 0.0 to km 3.3	3.3	Reconstruction, widening, realignment grade revisions and gravelling	Mar/83	100%
	C-1660	T.C.H. East			Widen and regravel shoulders	Apr/83	100%
	C-1919	Hartley Road 39	km 0.0 to km 2.7	2.7	Reconstruction, widening, realignment and gravelling	Apr/83	100%
	C-1920	T.C.H. West	Left Turn Slot at Hartley Road	0.1	Widen and regravel shoulders	May/83	100%
	C-1918	Golden/Donald Upper 42	km 0.0 to km 11.3	11.3	Reconstruction, widening, realignment, grade revisions and gravelling	May/83	100%
	C-1917	Westside 2	km 29.0 to km 32.2	3.2	Reconstruction, widening, realignment, grade revisions and gravelling	May/83	100%
	C-1915	Spence 2	km 0.0 to km 2.0	2.0	Reconstruction, widening, realignment, grade revisions and gravelling	June/83	100%
	C-0137E	Lafontaine 73	km 0.0 to km 0.4	0.4	Reconstruction, widening, realignment grade revision and gravelling	June/83	100%
	C-0137D	Blaeberry 152	km 0.0 to km 3.0	3.0	Reconstruction, clea and grub R/W	Aug/83	100%
	C-1914	Chalmer 83	km 0.0 to km 0.5	0.5	Reconstruction, widening, realignment, and gravelling	Aug/83	100%
	C-0137H	Glenmore Drive 271	km 0.0 to km 0.6	0.6	Reconstruct, realign and gravel	Aug/83	100%
	C-0137G	Nabel 364	km 0.0 to km 1.1	1.1	Regravelling	Aug/83	100%
	C-1839	T.C.H. East	km 7.8 to km 10.8	3.0	Reconstruction, widening, realignment, gravelling, paving and guardrail installation	May/83	100%
	C-2401	Panorama 334	km 0.0 to km 1.6	1.6	Machine paving	Oct/83	100%
Revelstoke	C-0138A	Various Locations	Revelstoke Area	27.8	Minor widenings and reconstruction, regravelling, ditching and other minor improvements	Apr/83	100%
	C-0138B	Various Locations	Trout Lake Area	19.8	Minor widenings and reconstruction, regravelling, ditching and other minor improvements	Apr/83	100%
	C-0138C	Various Locations	50 Mile Area	21.5	Regravelling shoulders, ditching, other minor improvements	Apr/83	100%
	C-0138D	Naksup Mica Creek Highway 23	Ferry Ramps		Repair concrete ramps & place riprap	Apr/83	100%
	N-0388	T.C.H.	Various Locations East and West of Revelstoke		Install guardrail (69 cm)	Apr/83	100%
	B-2190	Big Eddy Arterial 758R	Old Columbia River Bridge 422	330 m	Redecking with steel mesh	Apr/83	100%
	B-2257	Balfour-Kaslo-Galena Hwy. 31	Beaton Creek at Armstrong Lake	90 m	Reconstruction of bridge on highway realignment	May/83	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Revelstoke (cont'd)	C-1922	Mt. Begbie Road 201	km 1.97 to km 3.16	1.19	Realignment, reconstruction, widening	Apr/83	60%
	C-1923	Balfour-Kaslo-Galena Bay Highway 31 (Westside)	km 2.2 to km 3.5	1.3	New construction, clearing and grubbing rough in	May/83	60%
	C-1924	Mabel Lake-Three Valley Road	km 0.0 to km 0.76	0.76	Realignment, reconstruction, widening grade revision	Apr/83	75%
	C-1925	Balfour-Kaslo-Galena Bay Highway 31-Armstrong Lake Trout Lake Section	km 26.0 to km 30.74	4.74	Realignment, reconstruction, grade revision	Apr/83	80%
	C-1926	Beaton-Armstrong Lake 800	km 0.0 to km 4.75	4.75	Realignment, reconstruction, widening	Apr/83	50%
	C-1927	Nakusp-Mica Creek Highway 23 (Revelstoke-Shelter Bay section)	km 34.1 to km 49.95	15.85	Regravel shoulders	Apr/83	25%
	C-1928	Hill Creek 834	km 0.0 to km 0.93	0.93	Realignment, reconstruction, widening, grade revision	Apr/83	80%
	C-0139	Hollowink, Evans, McKay, Simmons, Huscroft, Lanoville, Corn Creek, Duck Creek	Minor Betterments	6.1	Machine brush, road widen, gravel surface treat and sand seal	Apr/83	100%
	C-1930	Creston Area Roads	Peterman, Connel West, McKay	2.21	Brushing, rock work, gravel	Apr/83	100%
	C-1931	Gray Creek, Oliver, Pilot Bay, Hemlock	Area improvements - various locations	1.02	Clearing and grubbing, hand brush gravelling	May/83	100%
	C-1932	Creston-Erickson	km 0.0 to km 1.21	1.21	Pavement levelling course	Sept/83	100%
	C-1933	Abbey Road	km 1.1 to km 2.35	1.25	Road surface treatment, crush gravel, road widening and oil	Apr/83	100%
	C-1934	Lakeview	km 1.44 to km 3.45	2.01	Reconstruction, rock work, widening gravel	May/83	100%
	C-1935	Walkers Landing	km 0.0 to km 1.5	1.5	Clearing, new construction, culvert and gravel	Sept/83	100%
	C-1936	Robson Road	km 0.0 to km 1.67	1.67	Reconstruction, new construction, ditching, culverts and gravel	May/83	100%
	C-1937	Highway 3	2.8 km west of Kootenay Pass Camp	120 m	Daylite rock cut	June/83	100%
	C-1938	Highway 3A, Abbey, Arrow Creek East	Area Improvements, Various Locations	0.9	Culvert replace, survey costs, R/W seeding, R/W fencing	May/83	100%
	N-0389	Highway 3A	Various Locations	620 m	Install guardrail (690 mm)	Sept/83	100%
	B-1758	Maryland Creek Bridge		12.1 m	Log construction bridge - solid deck and construct approaches	June/83	100%
	B-2258	Corn Creek Bridge	Creston-Summit Creek Road	30.5 m	Replace timber deck and rail	Sept/83	100%
	B-2259	Kidd Creek Bridge		16.7 m	Repair cracks on concrete deck	Mar/84	100%
	B-2547	Miscellaneous Bridges	Walker Bridge, Sanca Creek, Lochart Creek Bridge	100 m	Remove and galvanize bridge panels	Feb/84	50%
	B-1823	Highway 21	Goat River		Install temporary Bailey for new bridge construction	Apr/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Revelstoke (cont'd)	C-0202	Highway 3A	5 km north of Creston	180 m	Install guardrail on a dangerous corner	Sept/83	100%
	C-0204A	Duck Creek	km 0.0 to km 1.02	1.02	Sand seal additional road width for sidewalk	Aug/83	100%
	C-0204B	Canyon Porthill	km 1.38 to km 3.0	1.62	Widen road for pedestrian use (School children)	Oct/83	50%
	C-0205	Highway 3 - Creston Arterial	km 70.48 to km 71.03	0.55	Widen road for pedestrian use	Sept/83	50%
REGION 4 Prince George	C-1987	Ness Lake Road	at Ness Lake	3.2	Reconstruction		85%
	C-1988	Longworth Access Road	km 4.0 to km 5.9	1.2	Reconstruct and gravel		80%
	C-1989	Highway 16 West	Gauthier Road West	0.4	Lengthen and pave acceleration lane		100%
	C-1990	John Hart Highway 97	Chief Lake Road-O'Dell Road	33.0	Patching and crack seal		100%
	C-1991	Wright Creek Road	Blackmore Road-Wright Creek Road	1.2	Reconstruction, widening		100%
	C-1992	Salmon Valley Road	B.C. Railway Crossing South	3.1	Reconstruct, widening		80%
	C-1993	Mackenzie Arterial 436R	Mackenzie to Gantahaz Sub.	4.8	Reconstruct, widening		100%
	C-1994	Yellowhead Highway 16	Upper Fraser Road - Bowron Road	38.0	Shoulder widen and ditching		100%
	C-1995	Cummings Road	Pooley Road to Pinko Road	4.0	Reconstruct, gravel and crush		100%
	C-1996	Johnson Road	Evasko Road-Tabor Creek Road	3.2	Reconstruct and gravel		80%
	C-1997	Bendixon Road	Pooley Road-Pink Road	4.0	Gravel and crush		100%
	C-1998	Buckhorn Road	Lund Road-Dale Creek Road	8.0	Gravel and crush		100%
	C-2001	Dome Creek - Kidd Road	Dome Creek East	2.0	Ditch and gravel		100%
	C-2003	West Lake Road	Blackwater Road - West Lake Park	2.5	Crush and pave		100%
	C-2005	Lund Road	Bendixon to Buckhorn Road	7.8	Reconstruct, widen		50%
	C-2006	Lower Mud River Road	Chilako River North	1.1	Reconstruct and realign		75%
	C-2007	Norman Lake Road	Bednesti Lake Road South	2.0	Gravelling and drainage improvements		75%
	C-2512	Yellowhead Highway 16	Bowron Road - Crescent Spur	94.0	Widening and drainage improvements		30%
	C-2513	Miscellaneous District Roads		15.0	Gravelling and crush		100%
	C-4180	Upper Fraser Road	Newlands - Upper Fraser	17.6	Reconstruction		100%
	N-0429	Trunk Highways	Yellowhead and John Hart	1.62	Guardrail installation		80%
	W-0356	Schedule 2 Highways	Cariboo Highway	8.7	Fencing		100%
Quesnel	C-0141	Barkerville Highway 26	Wingdam - Wells	20.0	Gradall ditching		100%
		Edmunds Road 150	D.L. 7297	0.50	Realignment revision		100%
		Cariboo Highway 97 North	Various Sections - Hixon Area	0.50	Shoulder repairs		100%
		Bobcat Road 865	Full Length	0.20	Resurface with pavement grindings		100%
		Naver Creek Road 195	Highway 97 North	0.2	Resurface with pavement grindings		100%
		Matthews Road 100	Hairpin	0.30	Culvert installation - realignment		100%
		Susag Road 933	Railway Crossing	0.50	Shoulder widening		100%
		Clouston Road 748	Various Sections	1.0	Regravelling		100%
		Quesnel - Hixon Road 23	Various Sections	1.0	Gradall Ditching		100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Quesnel (cont'd)	C-0141	Maple Drive 223	Red Bluff Elementary	0.6	Construct paved shoulders		100%
		Sumington Road 241	Various Sections	0.2	Regravelling		100%
		Bastin Road 129	Bastin Hill	3.0	Regravelling		100%
		Alexandria Ferry South Road 33	Slide Repairs	0.5	Reconstruction		100%
		Ernst Road 834	Various Sections	0.5	Regravelling		100%
		Dragon Mountain Road 171	Various Sections	0.3	Regravelling		100%
		Elm Street 281	Maple Drive - Ash Avenue	1.0	Reditch and culvert installations		100%
		Kersley - Dale Landing 50	Highway 97 South	1.5	Regravel		100%
		Hill Lake 172	French Road - Hill Lake	3.0	Reconstruction		100%
		Deering Road 786	Highway 97 - Powerline	1.1	Regravelling		100%
	C-1825	Garvin Road 134	D.L. 9157		Riprap Blasting		100%
	C-2008	Cariboo Highway 97 South	Dragon Hill - Maple Drive	3.68	Widen to four lanes		100%
		Quesnel Hydraulic 60	Highway 97 South - Frank's Supermarket	0.2	Reconstruction		100%
		Juniper Road 286	Quesnel Hydraulic to Larch Ave.	0.7	Reconstruction and extension		100%
		Ash Avenue 277	Highway 97 South to Cedar Ave.	0.3	New construction		100%
		Short Avenue 120	Intersection - Ash Avenue	0.1	New construction		100%
		Cedar Avenue 280	Intersection - 97 South	0.2	New construction		50%
		Racing Road 641	Ryan Road - Highway 97	0.3	New construction		100%
		Bryce Road 74	Highway 97 South - Northstar Rd.	0.5	Reconstruction		100%
		Sword Road 648	Northstar I/C - Carson Pit	1.2	Reconstruction		100%
		Sales West 242	Highway 97 - Sales Pit	0.5	Intersection improvement		100%
		Valhalla Frontage Road 697	Racing Road to Valhalla Motel	0.4	New construction		100%
	C-2009	Marsh Drive 748R	Moffatt Bridge to Avery Avenue	0.85	Widen to four lanes, curb and gutter		100%
		Skyline Road 235	Fraser Road Hill	0.9	Resurface with pavement grindings		100%
	C-2010	Camp Creek Road 330	D.L. 4580 - Trapping Lake	1.6	Clearing and drainage		100%
	C-2011	Pelican Lake Road 341	Nazko Road 59 - Clear Lake Road	11.7	Reconstruction		100%
	C-2012	Nazko Road 59	Leakes Rock Bluffs	2.0	Reconstruction		100%
	C-2013	Nazko Road 59	McKnott Bridge - Batnuni Lake	22.0	Reconstruction		100%
	C-2014	Barkerville Highway 26	Lovers Leap	0.5	Deep fill shoulder widening		100%
	C-2015	Barkerville Highway 26	Six and Eleven Mile Hills	1.0	Frost boil-base reconstruction		100%
	C-2016	Camp Creek 330	D.L. 4580 - Trapping Lake	1.6	Base construction and gravelling		100%
	C-2017	Quesnel - Blackwater Road 58	5 Dollar Hill	1.0	Reconstruction		100%
		Blackwater - Spruce 104	Various	3.0	Regravelling		100%
	C-2018	Fraser Road 32	Parker Road - Marguerite	14.0	Regravelling		100%
		Lepetich Road 184	Various Sections	2.0	Regravelling		100%
		Glassford Road 21	Various Sections	1.0	Regravelling		100%
	C-2019	Nazko Road 59	Blackwater River 3 km south	3.0	R/W clearing, Hydro REA extension		100%
	C-2020	Wells Townsite	Margeret & Burnett Avenues	0.5	Ditching and drainage works		100%
	C-2021	Fridlington 37	Highway 97 Hill	1.0	Realignment, reconstruction		100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Quesnel (cont'd)	C-2022	Lagerquist Road 64	Highway 97 - McLeese Lake	1.8	Gravel and treat surface		100%
		Lynes Creek 354	Tyee Lake	3.0	Brushing		100%
	C-2023	Robertson Road 249	Elementary School	0.5	Gravel and treat surface		100%
		Cariboo Highway 97 South	Various Sections	8.0	Gradall ditching		100%
		Enright 713	Full Length	1.4	Regravel and brush		100%
	C-2024	Swanson Road 647	Highway 97 North - Woodward Rd.	0.2	Repair road and riverbank sloughing		100%
	C-2025	Dunkley Road 176	Intersection - Highway 97 North	0.2	Intersection improvements		100%
	C-2026	Rau Road 103	Quesnel - Hixon Road, D.L. 5069	5.0	Reconstruction		100%
		Allcock Road 93	Allcock Hill	0.5	Reconstruction		100%
		Armstrong 20	Quesnel - Hixon - Dairy Farm	1.2	Reconstruction		100%
	C-2027	Paradise Road 25	D.L. 3235	1.0	Realignment, revision		100%
	C-2028	Trembley Road 119	Quesnel - Canyon Hill	1.6	Reconstruction, steep gorge		100%
	C-2029	Moffatt Lake Road 114	Highway 97, Railroad crossing	0.5	Cattleguard & intersection improvements		100%
	C-2030	Grevatt Road	Punchesakut Lake	1.0	Regravelling		100%
		Rainbow Road	Nazko Road	0.2	Shoulder widening, pullots		100%
	C-2331	Milburn 189	Full Length	2.5	Preparation for paving		100%
		Rawlings 197	Full Length	11.0	Preparation for paving		100%
		Shaver 42	Full Length	0.6	Preparation for paving		100%
		Falcon 254	Full Length	0.8	Preparation for paving		100%
		Loop 155	Full Length	0.15	Preparation for paving		100%
		Knickerbocker 359	Full Length	0.2	Preparation for paving		100%
		Wells 237	Full Length	0.32	Preparation for paving		100%
		Gemini 802	Full Length	0.2	Preparation for paving		100%
		Titus 212	Full Length	0.2	Preparation for paving		100%
	C-2332	Alexandria School Road 244	Full Length	0.5	Reconstruction, preparation for paving		100%
		Arnoldus 89	Edwards Road - Elem. School	0.5	Shoulder widening		100%
		Cariboo Highway 97 South	Kersley Boils	2.0	Frost boil, base reconstruction		100%
		Carlson Canyon 343	Fraser Road - Fraser River	1.6	Regravelling		100%
		Dale Lake 77	Johnson Road - Durrell Road	2.0	Reconstruction		100%
		Datoff 72	Dragon Lake Road cul-de-sac	0.9	Regravel		100%
		Dragon Lake 45	Hwy. 97 South-Zchiedrich Corner	2.0	Regravel		100%
		Eberg 395	Teofil Road - Red Bluff Road	0.9	Regravel		100%
		Fox 298	Wolfe Subdivision	0.2	Regravel		100%
		Fraser Road 32	Baker "S" Curves	0.5	Reconstruction, realignment		100%
		Fraser Road 32	Ruric Spring Slide	0.5	Reconstruction, grade revision		100%
		Hanson Pit Road 213	Red Bluff Road - Hanson Pit	0.6	Reconstruction		100%
		Higdon 82	Fraser Road - Higdon Pit	1.85	Regravel		100%
		Johnson 15	Dragon Lake Road-Dale Lake Road	7.8	Regravel		100%
		Loloff Crescent 41	Red Bluff Road - Red Bluff Road	0.8	Regravel		100%
		McDonald 256	Wolfe Subdivision	0.5	Regravel		100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Quesnel (cont'd)	C-2332	Teofil 600	Highway 97 South - Eberg Road	0.91	Regravel		100%
		Wheeler 16	Full Length	0.8	Regravel		100%
		Wolfe 83	Wolfe Subdivision	0.2	Regravel		100%
	C-2403	Tibbles Road 98	Nazko - Lavington Road	4.0	Reconstruction		100%
	C-2404	Valhalla 697	Highway 97 South - Richards Road	1.2	New construction		100%
		Richards Road	Valhalla Road cul-de-sac	0.3	Reconstruction		100%
	C-2515	Durrell Road 162	Dale Lake Road East	1.5	Reconstruction		100%
		Durrell Road 162	Dale Lake Road East	2.0	Regravelling		100%
		Webster Lake 157	Fraser Road - Garner Road	8.0	Regravelling		100%
		Valhalla 697	Highway 97 South - Richard Road	1.2	Gravelling, preparation for paving		100%
		Tibbles Road 98	Nazko Road - Lavington	2.0	Regravelling		100%
	C-2516	Paradise Road 25	Dagneau Hill - Mackie Hill	6.0	R/W clearing		100%
		Paradise Road 25	Various Sections	2.0	Regravelling		100%
		Bartkow Road 57	Six Mile Hill	1.3	Reconstruction		100%
		Quesnel - Blackwater Road 58	Various Sections	5.0	Regravelling		100%
		Nazko Road 59	Trout Lake - Gillies Crossing	3.0	Regravelling		100%
	C-2535	Loloff Road 46	Red Bluff Road - Loloff subdiv.	1.6	R/W clearing, base construction		100%
	N-0430	Guardrail Program	Cariboo Highway 97 South - Dragon Hill four laning	1.0	Guardrail installation		50%
	W-0357	Fencing Contract	Cariboo Hwy. North & South	6.6	R/W fencing		100%
		Schedule II Fencing	Cariboo Hwy. - Various Sections	5.0	R/W fencing		75%
Dawson Creek		Road 213	km 0.8 to km 3.8	3.0	Regravel, shale		100%
		Road 215	km 11.1 to km 11.9	0.8	Regravel, shale		100%
		Road 15	km 6.2 to km 7.8	1.6	Regravel, pit run		100%
		Road 302	km 0.0 to km 0.4	0.4	Regravel, shale		100%
		Road 201B	km 1.6 to km 2.4	0.8	Regravel, shale		100%
		Road 15	km 7.8 to km 8.6	0.8	Regravel, shale		100%
		Road 203	km 5.6 to km 6.4	0.8	Regravel, shale		100%
		Road 205	km 0.0 to km 0.8	0.8	Regravel, shale		100%
		Road 195	km 0.0 to km 0.8	0.8	Regravel, shale		100%
		Road 20	km 0.0 to km 0.4	0.4	Reconstruct, shale		100%
		Road 200	km 1.8 to km 2.0	0.2	Regravel, shale		100%
		Road 202	km 4.4 to km 4.6	0.2	Regravel, shale		100%
		Road 204	km 3.6 to km 4.0	0.4	Regravel, shale		100%
		Road 204	km 8.4 to km 8.8	0.4	New construction		100%
		Road 206	km 22.06 to km 22.86	0.8	Regravel, shale		100%
		Road 206	km 20.96 to km 21.76	0.8	Regravel, shale		100%
		Road 225	km 3.4 to km 3.8	0.4	Regravel, shale		100%
		Road 227	km 1.8 to km 2.6	0.8	Regravel, shale		100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Dawson Creek (cont'd)		Road 208	km 23.1 to km 24.7	1.6	Regravel, shale		100%
		Road 203	km 5.6 to km 7.2	1.6	Regravel, pit run		100%
		Road 233	km 0.0 to km 0.8	0.8	Regravel, shale		100%
		Road 223	km 34.4 to km 34.8	0.4	Regravel, shale		100%
		Road 221	km 35.86 to km 38.86	3.0	Reconstruct, shale and pit run (widen and realignment)		100%
		Road 208	km 4.2 to km 8.0	3.8	Pave		100%
		Imperial Access Road	km 0.0 to km 1.6	1.6	Pave		100%
		Road 219	km 0.0 to km 6.4	6.4	Pave		100%
		Road 211	km 0.0 to km 1.6	1.6	Pave		100%
		Radar Pit Road	km 2.6 to km 10.6	8.0	Reconstruct, widen, realign		100%
		Radar Pit Road-South Dawson Rd.	km 0.0 to km 1.0	1.0	Reconstruct, needs gravel yet		90%
		Highway 2	Fynn's Corner to Airport	4.4	Regravel shoulder		100%
		Road 210	km 0.0 to km 1.6	1.6	Pave		100%
		Highway 52 (Heritage Highway)	km 57.9 to km 94.95	37.06	Regravel		100%
		Highway 52	Dennison Mine Turnoff-Flatbed #2	25.0	Regravel		100%
		Highway 52 (Heritage Highway)	Flatbed #2 to Redwillow	40.0	Regravel		100%
		Highway 52	Kelly Lake Turnoff-Borden Cr.	8.0	Regravel		100%
		Hansen Road	km 0.0 to km 2.0	2.0	Regravel		100%
		Krantz Road	km 1.0 to km 5.0	4.0	Regravel		100%
		One Island Lake Road	km 8.0 to km 3.0	3.0	Regravel		100%
		Highway 52 (Heritage Highway)	Redwillow to Dennison Mine Turnoff	20.0	Road base repair		100%
		Highway 52	Tumbler Ridge to Mile 8	10.0	Road base repair		100%
		Highway 52	Flatbed #2 Area	2.5	Ditch clean		100%
		Highway 52	Babcock Area	3.0	Ditch clean		100%
		Highway 52	Redwillow to Flatbed #2	2.0	Ditch clean		100%
		Road 234	km 0.0 to km 1.5	1.5	Regravel		100%
		Peace Park Road	km 0.0 to km 0.5	0.5	Cold mix		100%
		Road 230X (Collins Road)	km 1.5 to km 3.0	1.5	Regravel		100%
		Road 228 (Pierce Road)	km 1.3 to km 3.3	2.0	Regravel		100%
		Road 243 (Newton Road)	km 1.1 to km 3.1	2.0	Regravel		100%
		Road 245 (Verdzak Road)	km 0.0 to km 1.0	1.0	Regravel		100%
		Road 245 (Walker Road)	km 1.5 to km 2.0	0.5	Regravel		100%
		Road 212	km 0.0 to km 1.5	1.5	Regravel		100%
		Road 212	km 2.0 to km 5.5	3.5	Regravel		100%
		Road 212	km 0.0 to km 1.6	1.6	Reconstruct and pave		100%
		Road 237 (Mason Road)	km 0.0 to km 2.0	2.0	Regravel		100%
		Road 243 (Fraser Road)	km 1.5 to km 3.5	2.0	Regravel		100%
		Road 216	km 4.5 to km 5.5	1.0	Regravel		100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Dawson Creek (cont'd)		Road 227 (Fredrickson Road)	km 0.0 to km 0.5	0.5	Regravel		100%
		Road 245 (Lentz Road)	km 0.0 to km 1.0	1.0	Regravel		106%
		Road 209 (Boyd Road)	km 1.5 to km 2.5	1.0	Regravel		100%
		Road 241 (Hoggs Road)	km 1.0 to km 1.5	0.5	Regravel		100%
		Road 243 (Ralph Road)	km 0.0 to km 1.0	1.0	Regravel		100%
		Road 229 (Hiebert Road)	km 0.0 to km 1.0	1.0	Regravel		100%
		Road 223 (East Road)	km 1.5 to km 2.5	1.0	Regravel		100%
		Road 214 (Mile 8 Road)	km 0.0 to km 0.5	0.5	Reconstruct		100%
		Road 210 (Parkland Road)	km 0.0 to km 4.0	4.0	Reconstruct and pave		100%
		Road 9	From Road 212 South	2.4	Regravel		100%
		Road 263	North of Road 216	1.2	Gravel		100%
		Road 220	East of Braden Road	1.6	Gravel		100%
		Braden Road	North of Road 220	4.6	Regravel		100%
		Road 265	South from Road 216	3.0	Regravel		100%
		Road 10	South of Road 214	1.2	Reconstruct and gravel		100%
		Road 10	North from Highway 97	1.6	Regravel		100%
		Road 275	South from Highway 97	1.6	Reconstruct and gravel		100%
		Road 271	South from Highway 97	1.6	Reconstruct and gravel		100%
		Road 259	South from Highway 97	2.0	Regravel		100%
		Road 259	South of Highway 97	0.8	Reconstruct and gravel		100%
		Road 259	North of Highway 97	2.4	Gravel		100%
		Road 261	North of Highway 97	0.8	Gravel		100%
		Road 202	To End of Road 247	6.0	Gravel		100%
		Road 245	km 2.0 to km 2.3	2.3	Gravel		100%
		Fullerton Road	From Road 245 West and North	2.0	Gravel		100%
		Road 251	From Bridge North to West Broad's	0.6	Regravel		100%
		Road 208	East from Road 253	0.5	Regravel		100%
		Road 206	West From Road 243	0.5	Regravel		100%
		Road 217	North from Road 224	3.2	Regravel		100%
		Road 3	Clayhurst Hill	2.0	Regravel		100%
		Road 230	North from Road 3	2.4	Regravel		100%
		Road 213	Road 220 to Road 224	6.4	Reconstruct and gravel		100%
		Road 5	Landry Hill	3.0	Regravel		100%
		Road 220	East from Road 3	8.0	Regravel		100%
		Road 1A	km 0.0 to km 0.5	0.5	Reconstruct and gravel		100%
		Highway 97 South	East of Village Boundary	3.0	Widen shoulder and gravel		100%
		Highway 97 South	West of Village Boundary	3.0	Widen shoulder and gravel		100%
		Road 28A	km 0.0 to km 0.5	0.5	Construct		100%
		Road 28	Beers Road to Grants Road	4.0	Gravel		100%
		Road 27	Hilton's to Rodeo Grounds	3.0	Gravel		100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Dawson Creek (cont'd)		Road 31	km 0.0 to km 1.0	1.0	Gravel		100%
		Road 12 (Jackfish Lake Road)	km 3.0 to km 3.5	0.5	Gravel		100%
		Road 12A (Willis Road)	km 0.0 to km 1.0	1.0	Gravel		100%
		Road 83 (Howard Road)	km 0.0 to km 1.0	1.0	Gravel		100%
		Road 28	Pine Terrace Pit Road	3.0	Gravel		100%
		Road 12D (Hobbs Road)	km 0.0 to km 0.5	0.5	Gravel		100%
		Skillings Road	km 0.0 to km 0.5	0.5	Gravel		100%
Fort St. John	C-1865	Highway 97, Drainage Ditch	88th Street to 100th Street	1.5	Installation of 1,492 mm of 2,400 mm and 2,000 mm of dia. smooth flow pipe including concrete junction boxes, and reconstruction of ditches	Aug/83	90%
	C-1959	Road 157 Buick Road Connect.	D.L. 2972	4.0	New construction, installation of 80 m 3,990 mm dia. M.P.P.		75%
	C-1960	Highway 97 at Road 255	Baldonnel Intersection	0.4	Reconstruction, realignment of Road 255, upgrade and widen Highway 97, for left turn lane and installation of intersection lighting		100%
	C-1961	Highway 97	Taylor to Road 269	2.42	Reconstruction; intersection upgrading drainage improvements in preparation for paving contract S-1750		100%
	C-1962	Road 107	Road 233 to Road 240	18.4	Regravelling		100%
	C-1964	Road 140	Highway 97 to Road 114	8.0	Regravelling		100%
	C-1965	Road 242	Road 245 to Road 255	8.0	Regravelling		100%
	C-1966	Road 253	Road 238 to Road 242	6.4	Regravelling		100%
	C-1967	Miscellaneous Roads	Area "A"	57.6	Regravelling		100%
	C-1968	Road 119, Tea Creek Crossing	Road 277 to East Boundary	1.0	Reconstruction and realignment		100%
	C-1969	Road 121	Road 246 to Road 114	14.9	Regravelling		100%
	C-1970	Road 114	Highway 97 to Road 193	14.4	Regravelling		100%
	C-1971	Road 116, Lower Cache	Highway 97 to Junction Road 126	16.8	Regravelling		100%
	C-1972	Road 126	Junction Road 126 to end of Road 126	20.0	Regravelling		100%
	C-1973	Miscellaneous Roads	Area "B"	16.3	Regravelling		100%
	C-1973	Miscellaneous Roads	Area "C"	24.3	Regravelling		100%
	C-1974	Road 151, Beatton River Road	km 10.5 to km 29.0	18.5	Regravelling		100%
	C-1975	Road 137, Milligan Creek Road	Peterson Bridge to km 83.6	40.0	Regravelling		100%
	C-1976	Road 115, Farrel Creek Road	To North End of Road	11.5	Regravelling		100%
	C-1976	Miscellaneous Roads	Area D, Other Farrel Cr. Roads	17.7	Regravelling		100%
	C-1977	Road 116, Upper Cache	Highway 29 to West Boundary	4.0	Regravelling		100%
	C-1977	Road 116, Upper Cache	South Boundary to Jct. Road 254	17.0	Regravelling		100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Fort St. John (cont'd)	C-1978	Road 184, Siphon Creek Road	km 2.4 to Junction Road 256	13.3	Regravelling		100%
	C-1978	Road 184, Siphon Creek Road	Junction Road 258 to N. Boundary	20.7	Regravelling		100%
	C-1979	Road 211	Junction Road 103 to Good Bridge on Road 256	14.4	Regravelling		100%
	C-1980	Road 111	Junction Road 103 to Road 180	8.0	Regravelling		100%
	C-1981	Road 108	Road 234 to Jet. Road 103	31.2	Regravelling		100%
	C-1982	Miscellaneous Roads	Area E, Road 239 and Road 256	10.8	Regravelling		100%
	C-1983	Road 269	km 5.6 to km 5.7	0.1	Slide repair, repave		100%
	C-1983	Road 103, Beatton River Hill	km 17.0 to km 18.0		Blast and remove danger rock		100%
	C-1983	Road 521	Municipality of Hudson's Hope	0.1	Construction of pullouts for tourist information signs		100%
	C-1983	Road 246A	Road 103 to Road 108	3.2	Regravelling		100%
	C-1983	Road 101	Montney Hill at km 6.5	0.2	Slide repairs, excavate failed material and construct granular support beam		100%
	C-1984	Road 287, Laurson Road	Road 250 North	0.8	New construction and gravelling		100%
	C-1984	Road 122, Iron Creek Road	Road 117 to North Boundary, D.L. 1336	6.0	Regravelling		50%
	C-1984	Road 233, Green Road	Road 103 to North Boundary	0.8	New construction and gravelling		100%
	C-1984	Road 239, Lewis Road	Road 254 South	1.6	New construction and gravelling		100%
	C-1984	Road 159, Friesen Road	Junction Road 143 North, 2.4 km to 3.2 km	0.8	New construction and gravelling		100%
	C-1984	Road 256, K. Ott Road	Road 215 to West Boundary	2.8	New construction and gravelling		100%
	C-1984	Road 117, Craik Pit 4408	District Lot 1303		Fencing gravel pit boundaries as per lease agreement		100%
	C-1984	Road 115A, S-K Ranch Road	Road 115 to South Boundary	1.6	New construction and gravelling		100%
	C-1984	Road 269A, Dyck Road	Junction Road 143 North	0.8	New construction and gravelling		100%
	C-1984	Road 117	Thru South 1/2 of D.L. 1319 and D.L. 1320		Right of way fencing, as required per right of way agreement		100%
	C-1985	Liard Highway 77	Ft. Nelson River Br. Approaches	4.4	New construction, gravelling		75%
	C-2522	Nolan Pit			Gravel haul and stockpile to Osborne Stockpile site		100%
	C-2530	Moffatt Quarry P4474			Prepare, haul, and place riprap at various locations for stream and erosion control		100%
	C-2531	Road 117, Mile 95 Road	km 28.0 to km 50.0	5.0	Right of way clearing to improve sight distance on curves		30%
	C-2531	Road 117, Mile 95 Road	km 33.3 to km 33.8	0.5	Reconstruction, realignment of Halfway Indian Reserve Hill		100%
	C-2531	Road 117, Mile 95 Road	km 43.0 to km 43.2	0.2	Reconstruction, realignment and widening through rock cut section		70%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Fort St. John (cont'd)	C-2531	Road 117, Mile 95 Road	km 48.0 to km 48.3	0.3	Reconstruction, realignment of Goat Hill		70%
	C-2531	Road 117, Mile 95 Road	km 50.0 to km 50.2	0.2	Reconstruction, realignment and widening of Iron Creek Hill		70%
Vanderhoof	C-0553	New Nechako Bridge approaches	km 0.0 to km 7.5	7.5	New construction on new alignment	Aug/80	100%
	C-2063	Sackner Road	km 0.0 to km 2.0	2.0	Slope stabilization and fencing	Oct/83	100%
	C-2064	Mapes Road	km 0.0 to km 1.0	1.0	Reconstruction and gravelling	June/83	100%
				0.5	Reconstruct bridge approaches	June/83	100%
	C-2065	Sob Lake Road	km 11.0 to km 11.6	0.6	Realignment, reconstruction and gravel	June/83	100%
	C-2066	Bave Road	km 0.0 to km 6.0	6.0	New construction	Aug/83	20%
	C-2067	Sackner Pit Road	km 0.0 to km 3.2	3.2	New construction	Feb/84	15%
	C-2523	Vanderhoof Area	Various Locations		Gravelling	Feb/84	100%
	C-2532	Germansen Landing Road	km 6.4 to km 22.4	16.0	19 mm crush surfacing	Mar/84	80%
	C-2533	Glenannan Road	km 0.0 to km 1.2	1.2	38 mm and 19 mm crush surfacing	Mar/84	100%
	C-2534	Vanderhoof Area	Miscellaneous Farm Roads		Gravelling	Mar/84	100%
	C-3039	Tachie Road	km 0.0 to km 47.7	47.7	Reconstruct and gravel	July/83	20%
	N-0433	Yellowhead Highway	(Purchase Guardrail only)		Guardrail installation		80%
	W-0360	Yellowhead Highway	Various Locations	3.2	Right-of-way fencing	Aug/83	100%
McBride	J-8326	Yellowhead Highway 16	Various Locations	330	Machine brushing right-of-way	June/83	100%
	J-8341	Yellowhead Highway 16	Various Locations	16 ha	Machine brushing right-of-way	Aug/83	100%
	J-8351	Yellowhead Highway 16	Various Locations	4 ha	Machine brushing right-of-way	Nov/83	100%
	J-8332	Yellowhead Highway 16	Various Locations		Shoulder repair	May/83	
	J-8338	Yellowhead Highway 16	Various Locations	16 ha	Machine brushing right-of-way	July/83	100%
	J-8355	Yellowhead Highway 5	Various Locations	26 ha	Machine brushing right-of-way	Feb/84	100%
	J-8344	Yellowhead Highway 5	Various Locations		Regravel shoulders	Oct/83	100%
	J-8349	Yellowhead Highway 5	Various Locations	25 ha	Machine brushing right-of-way	Nov/83	100%
	J-8356	Yellowhead Highway 5	5 km north of Avola		Removal of rock slide	Mar/84	100%
	C-2048	Eddy Road 552		5.18	Reconstruction of road and railway approaches (realignment)	May/83	100%
	C-2051	Eddy Road 552	km 3.83 to km 5.18	1.35	Crushing road bed	May/83	100%
	C-2049	Barnett Road 532	km 0.0 to km 1.6	1.6	Reconstruction and new construction of road (widening)	May/83	100%
	C-2052 & C-2333	Dunster Station Road 530	km 0.0 to km 3.82	3.82	Reconstruction of road (widening and new diversion)	June/83	100%
	C-2053	Dore River Road 565	km 0.24 to km 1.78	1.34	Reconstruction and new construction	May/83	100%
	C-2055	Cedarside Road 507		9.0	Road stabilizing	July/83	100%
	C-2056	Blackman Road 575	Various Locations	12.0	Recrushing of road	May/83	100%
	C-2057	Cranberry Lake Road 506	km 7.7 to km 8.4	0.7	Reconstruction of road (new diversion and widening)	May/83	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
McBride (cont'd)	C-2060	Messiter Station Road 327		0.5	Recrushing of road	Sept/83	
	C-2377	Westlund Road 561			New construction	Mar/84	40%
	C-2527	Mountain View Road	km 1.1		Riprap Mountain View Road along Fraser River	Feb/84	100%
	C-2529	Yellowhead Highway 16	West Twin to District Boundary Various Locations		Ditch construction and rock drill	Feb/84	100%
	C-2529A	Prospect Road 461			New construction	Feb/84	100%
	W-361	Yellowhead Highway 5 and 16	Various Locations	11.0	Schedule 2 Fencing	May/83	100%
Williams Lake	C-2074	Chilcotin-Bella Coola Hwy. 20	Anahim I.R. to Alexis Creek	4.6	Reconstruct, widen and realign	Feb/83	100%
	C-2074	Chilcotin-Bella Coola Hwy. 20	Lee's Corner to Anahim Reserve	7.6	Reconstruct, widen and realign	Feb/83	100%
	C-2074	Chilcotin-Bella Coola Hwy. 20	End of pavement to Lee's Corner	8.0	Reconstruct, widen and realign	Mar/83	100%
	C-2517	Chilcotin-Bella Coola Hwy. 20	Bull Canyon to Alexis Creek	9.4	Reconstruct, widen and realign	Feb/84	25%
	C-2072	Chilcotin-Bella Coola Hwy. 20	Kleena Kleene River Br. Appr.	2.4	Reconstruct, widen and realign	Sept/83	100%
	C-2074	Alexis Creek Streets	All Streets at Alexis Creek	1.2	Reconstruct, prepare for paving	June/83	100%
	C-1863	Horsefly Road 419	Summit Lake to Gravel Creek	7.0	Reconstruct, widen and realign	May/83	100%
	C-1862	Likely Road 115	Big Lake to Beaver Valley	11.5	Reconstruct, widen and realign	July/33	40%
	C-1862	Likely Road 115	Bullion Pit to Likely Hill	2.5	Reconstruct, widen and realign	June/83	100%
	C-2069	Pigeon Road 389	Borland Cr. to Borland Valley Rd.	1.4	Reconstruct, widen and realign	June/83	100%
	C-2081	Hanceville 342-Canoe Cr. Rd.	Lee's Corner to Chilcotin River	3.5	Reconstruct, widen and realign	May/83	100%
	C-2070	Chimney Lake Road 610	km 3.9 to km 5.5	1.6	Reconstruct, widen and realign	Aug/83	100%
	C-2086	Dean River Road 1121	km 20.9 to km 21.7	0.8	Reconstruct, widen and realign	Aug/83	100%
	C-2086	Dean River Road 1121	km 21.7 to km 35.5	13.8	Right-of-way clearing	Sept/83	100%
	C-2083	Red Brush Road 1252	Top of Puntzi Mtn. to Puntzi Cr.	6.0	New construction	Sept/83	100%
	C-2595	Fox Mountain Road 381	km 0.0 to km 1.6	1.6	Reconstruct, new connection to Hwy. 97	Mar/84	100%
REGION 5 Prince Rupert	C-1939	Juskatla Road, Chinkundl Road, & Skidegate One-Way	Various Locations	4.0	Graded aggregate seal	July/83	100%
	C-1940	Stewart-Meziadin Highway 37A	Bitter Creek Bridge, Cullen Cr. Bridge, Bear #II Bridge and Surprise Creek Bridge	4.0	Realignment of bridge approaches	May/83	100%
	C-1940	Stewart-Meziadin Highway 37A	Entrance Creek Bridge		New bridge	May/83	100%
	C-1941	Highway 16 - Queens Charlotte	Various Locations	2.0	Erosion control	May/83	100%
	C-1942	Cassiar Highway 37	North of Meziadin	2.5	Grade revision and widening	May/83	100%
	C-0147R	Towhill Road	White Creek to Hiellen River	3.0	Right-of-way clearing	Mar/84	100%
Terrace	B-2273	Kalum Lake Road 3	km 42.13		Construct new bridge - Douglas Creek	Apr/83	100%
	B-2274	Kalum Lake Road 3	km 28.5		Construct new bridge - Clacier Creek	May/83	100%
	C-2500	Terrace-Kitimat Highway 37	km 35.0 to km 37.0	2.0	Riprap along Highway 37 next to the Kitimat River	Feb/84	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Terrace (cont'd)	C-2501	Kalum Lake Road 3	km 28.5		Bridge approaches	June/83	100%
	C-2502	Yellowhead Highway 16 West	km 27.6 to km 87.44	50.0	Miscellaneous paving and recap	June/83	100%
	C-2503	Terrace-Kitimat Highway 37	km 22.22 to km 51.11	28.89	Miscellaneous paving and recap	July/83	100%
	C-2504	Greenville Br. to Greenville	km 0.0 to km 4.0	4.0	Construction of a new road	Jan/84	100%
	C-1946Γ	Kitimat Village Road 200	km 11.2, Walth Bridge		Engineering field work on bridge relocation	Jan/84	80%
	C-1947K	Kalum Lake Arterial 570R	km 1.3 to km 2.4	1.1	Reconstruction/repair of road bed and improve horizontal curves	June/83	100%
	C-1947Q	Queensway Drive 2	km 4.48 to km 4.96	0.48	Reconstruction/improvement of vertical and horizontal curves	June/83	100%
	C-1947	Thornhill Streets		26.5	Preparing streets for paving	Apr/83	100%
	C-1946	Kalum Lake Road 3	km 3.91 to km 48.89	44.98	Reconstruction, widening, realignment grade revision	Apr/83	90%
	C-0148	Terrace District	Miscellaneous Road Repairs		Culvert installation, engineering, road bed repairs, right-of-way clearing	Apr/83	100%
Dease Lake	C-1948	Atlin Highway 2	Atlin Highway and Surprise Lake Road Junction (km 0.66 to 4.66)	4.0	Reconstruction, realignment and grade revisions, regravelling	June/83	100%
	C-1949	Cassiar Access 10	Highway 37 and Cassiar Access Road Junction (km 0.0) to Quartz Rock Creek (km 5.6)	5.6	Reconstruction, realignment and grade revisions, gravelling	May/83	100%
	C-1837	Cassiar Highway 37	Blue River Bridge (km 708.14) to Mud Hill Gravel Pit (km 716.04)	7.9	Reconstruction, major realignment and grade revision, gravelling	May/83	100%
Smithers	C-1951 & C-1955	Salmon River Road	km 3.7 to km 8.3, Jct. with Robinson Lake Road	4.6	New road grade and gravel	July/83	100%
	C-1952	Yellowhead Highway 16	Eckman Road Intersection South Towards Telkwa	0.54	Realign and reconstruct to eliminate "S" Curve	May/83	100%
	C-1953	Kitwancool Streets and Kitwancool Access Road	Kitwancool Indian Reserve South Boundary to North Access to Village Streets	4.95	Realign, widen and strengthen in preparation for paving. Rebuild approach to new bridge	May/83	100%
	C-1954 & C-1956	Eckman-Burnt Cabin Road and Babine Lake Road	Yellowhead Highway Junction to 2.5 km south of the Junction with Babine Lake Road	16.5	Rebuild shoulders and strengthen with gravel in preparation for paving	May/83	100%
	C-1957	Smithers Area Roads	Miscellaneous Roads	17.91	Widen and strengthen in preparation for paving contract S-1765. Some minor realignment and intersection improvements involved	Apr/83	100%
	C-0150N	Neilsen	At Simpson Creek		Install 1800 mm multiplate culvert with headwalls	Sept/83	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Burns Lake	C-0151A	Tchesinkut East 92	Junction with Highway 35	2.0	Reconstruct, grade revision, widen	July/83	80%
	C-0151B	Tintagel Road 36	Junction Hwy. 16 to Stearns Creek	4.0	Reconstruction, gravelling	Mar/84	100%
	C-0151C	Northbank Ferry Terminal	Terminal		Reconstruction, paving	Aug/83	100%
	C-0151E	Brown Road 9	Junction with Partington Road West	1.0	Reconstruction, ditching and gravelling	June/83	50%
	C-0151G	Yellowhead Highway 16	6 Mile Hill, East of Topley	0.5	Reconstruction, widen shoulders	Sept/83	40%
	C-0151H	Barrett Station 2	Junction with Seinen	1.0	Reconstruction, widen	Aug/83	100%
	C-0151J	Jarman Road 70	Junction with Perow Loop North	1.0	Reconstruction, gravelling	Aug/83	100%
	C-0151K	Topley Landing Road 118	Full Length	40.0	Crackseal	June/83	100%
	C-0151L	Forsyth 78	Dangerous Curve		Install no-post guardrail	Apr/83	100%
	C-0151M	Various Locations in Area B, mainly Yellowhead Hwy. 16	East of Houston		Brushing right-of-ways	Mar/84	100%
	C-0151S	Tatalrose 181	West of Grassy Plains	1.0	Reconstruction, ditching and gravelling	Aug/83	100%
	C-0151T	Various Locations	Area B		Brushing right-of-ways	Aug/83	100%
	C-1958	Colleymount 21, East Francois, Gerow Island, Pailing West, Rod & Gun, Beatty, Perow Loop		10.0	Reconstruction, graded aggregate sealing	July/83	100%
	W-0364	Yellowhead Highway 16	Various Locations	3.0	Schedule II Fencing	June/83	100%
REGION 6 Nanaimo	C-2140	Sylvester Road		1.25	Reconstruct and pave	May/83	100%
	C-2141	Quennell Road		1.5	Reconstruct and pave	June/83	100%
	C-2142	South Shore Road		1.0	Reconstruct and pave	June/83	100%
	C-2050	Riverside Road		1.2	Reconstruct and pave	July/83	100%
	C-1536	Berry Point Road		0.75	Reconstruct and pave	July/83	100%
	C-2143	Pilkey Point Road		0.5	Reconstruct and pave	June/83	100%
	C-2144	Highway 19 Northfield		0.5	Underpass and widen	Oct/83	100%
	C-0152A	Lafortune Road		0.7	Reconstruct and pave	May/83	100%
	C-0152G	Robson Lane		0.25	Reconstruct and pave	July/83	100%
	C-0152I	Walton Road		0.5	Reconstruct and pave	Aug/83	100%
	C-2330	North Road		0.25	Reconstruct and pave	Sept/83	100%
	C-2538	Glenora Road		1.5	Reconstruct and pave	Mar/84	100%
	C-2538	Telegraph Road		1.0	Reconstruct and pave	Mar/84	100%
	C-2568	Crofton Road		2.0	Reconstruct and pave	Mar/84	100%
	C-2538	Benko Road		0.25	Reconstruct and pave	Mar/84	100%
	C-2538	Butterfield Road		0.25	Reconstruct and pave	Mar/84	100%
	C-2538	Kingburn Road		0.75	Reconstruct and pave	Mar/84	100%
	C-2538	T.C.H.		1.0	Recap and pave	Mar/84	100%
	C-2570	Shell Beach Road		1.5	Reconstruct and pave	Mar/84	100%
	C-2538	Nanaimo River Road		1.0	Reconstruct and pave	Mar/84	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Saanich	C-2145	Admirals Road	At 4 Mile Hill	1.0	Widen and pave shoulder	May/83	100%
	C-2146	T.C.H.	Bellamy Road to Spencer Road	2.0	Paving overlay	June/83	100%
	C-2149	William Head Road	From the prison gates north	1.0	Reconstruction and paving	June/83	100%
	C-2150	Happy Valley Road	At Winter Road	0.5	Reconstruction, realign and pave	Apr/83	100%
	C-2151	Millstream Road	From Hordon Road North	2.0	Reconstruction, realignment and pave	Apr/83	100%
	C-2152	North End Road	Saint Mary's Lake	5.0	Reconstruction, widen and pave	Apr/83	100%
	C-2153	T.C.H.	At Spencer Road	0.2	Paving overlay	July/83	100%
	C-2154	Wain Road	Tatlow Road to West Saanich Road	2.0	Paving overlay	Mar/84	100%
	C-2155	West Coast Road	From Jordan River West	5.0	Paving overlay	June/83	100%
	C-2157	Gillespie Road	At Roche Cove	0.1	Reconstruction, realignment and pave	Apr/83	100%
	C-2158	West Coast Road	At Sombrio Creek	1.0	Reconstruction, widen and realign	Feb/84	100%
	C-2159	West Coast Road	At Kirby Creek	0.5	Reconstruction, realignment	May/83	50%
	C-2378	Saanich Area Roads	Keating Area	2.5	Paving overlay	Mar/84	100%
	C-2425	West Coast Road	At Muir Creek	0.1	Slide stabilization	Sept/83	100%
	C-2427	West Coast Road	Maple Avenue to John Muir School	2.0	Shoulder paving	Sept/83	100%
	C-2536	Otter Point & Rocky Point Roads	Sooke and Metchosin Areas	5.0	Reconstruction, widen and pave	Feb/84	100%
	C-2537	Jacklin Road	Intersection with Sooke Road	0.1	New construction	Feb/84	100%
	C-2571	Miscellaneous Gulf Island Roads	Galiano, Mayne, Pender and Saltspring Islands	10.0	Paving overlay	Mar/84	100%
	C-2572	Miscellaneous Gulf Island Roads	Galiano, Mayne, Pender and Saltspring Islands	10.0	Brush mowing	Feb/84	100%
	C-2573	Musgrave Road	From Isabella Point Road West	2.0	Reconstruction and gravel	Jan/84	100%
Port Alberni	C-2164	Leon Road 1102	Qualicum Bay	0.5	Reconstruct and pave	Apr/83	100%
	C-2164	Kenmuir Road 1103	Qualicum Bay	0.6	Pave	May/83	100%
	C-2160	Goodyear Road 2183 and Grovehill Road 2524	Qualicum Bay	1.0	Reconstruct	June/83	100%
	C-0154	Highway 4 - Johnson Road	Port Alberni		Reconstruct and pave Railroad crossing	June/83	100%
	C-0154	Howard Road 501	Coombs	0.2	Reconstruct	June/83	100%
	C-0154	Alberni-Tofino Highway 4 West	Kennedy Lake Area	0.2	Ditch construction, shoulder widen	July/83	100%
	C-0154	Alberni-Parksville Hwy. 4 East	Alberni Summit		Drainage improvement	July/83	100%
	C-0154	Bamfield Road 717	At Port Alberni	4.0	Gravel	July/83	100%
	C-2163	Island Highway 19 and Eaglecrest Drive 1025	French Creek	0.25	Construct, pave left turn slot	July/83	100%
	C-0542	Beaver Creek Road 1	Port Alberni	1.3	Reconstruct and pave	July/83	100%
	C-2161	Alberni-Tofino Highway 4 West	Forster Creek	0.5	Reconstruct and pave	Sept/83	100%
	C-0154	Best Road 2	Port Alberni	1.7	Gravel	Oct/83	100%
	C-0154	Hector Road 31	Port Alberni	3.2	Gravel	Oct/83	100%
	C-2540 & C-2576	Stirling Arm Crescent 677	Sproat Lake (Alberni)	2.0	Asphalt overlay	Mar/84	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Port Alberni (cont'd)	C-2574	Higginson Road 2081 and Delanice Road 2074	Northwest Bay	0.5	Prepare and pave	Mar/84	100%
	C-2541	Baldwin 1028	Northwest Bay	0.8		Mar/84	100%
	C-2541	Pacific Crescent 1029	French Creek	0.1	Asphalt overlay	Mar/84	100%
	C-2541	Seacrest Place 2117	French Creek	0.2	Asphalt overlay	Mar/84	100%
	C-2541	Mart Drive 2236	French Creek	0.8	Prepare and pave	Mar/84	100%
	C-2541	Metro Road 1520	Lantzville	0.1	Prepare and pave	Mar/84	100%
	C-2541	Oar Road 894	Lantzville	0.2	Prepare and pave	Mar/84	100%
	C-2541	Warick Road 2227	Lantzville	0.1	Prepare and pave	Mar/84	100%
	C-2541	Strait Road 919	Lantzville	0.1	Prepare and pave	Mar/84	100%
	C-2541	Hobbs Road 1080	Lantzville	0.1	Prepare and pave	Mar/84	100%
	C-2541	Rogers Road 362	Qualicum Bay	0.2	Prepare and pave	Mar/84	100%
	C-2541	Cormorant Crescent 849	Qualicum Bay	0.4	Prepare and pave	Mar/84	100%
	C-2541	Nautilus Drive 2090	Northwest Bay	0.1	Prepare and pave	Mar/84	100%
	C-2540	Alberni-Tofino Highway 4 West	Northwest Bay	0.1	Prepare and pave	Mar/84	100%
	C-2540 & C-2575	Alberni-Parksville Hwy. 4 East	Sproat Lake	0.5	Asphalt overlay	Mar/84	100%
	C-2575 & C-0154	Port Alberni Highway 210	Alberni Summit	3.0	Asphalt overlay	Mar/84	100%
	C-2541	Island Highway 19	Port Alberni	3.0	Asphalt overlay	Mar/84	100%
	C-0154	Bamfield Road 669	Parksville	0.5	Asphalt overlay	Mar/84	100%
		Jamieson Road 1075	Bamfield	0.3	Pave and shoulder	Mar/84	100%
		Maple Guard Drive 2114	Qualicum Bay	0.6	Prepare and pave	Mar/84	100%
		Thompson Clarke West 1017	Qualicum Bay	1.3	Prepare and pave	Mar/84	100%
		Longview Drive 2269	Deep Bay	0.3	Prepare and pave	Mar/84	100%
		Seaview Drive 2267	Deep Bay	0.3	Prepare and pave	Mar/84	100%
		Smithers Road 2106	Deep Bay	0.5	Prepare and pave	Mar/84	100%
		Allsbrook Road 1085	Errington	1.1	Prepare and pave	Mar/84	100%
		Popham 524	Parksville	1.0	Prepare and pave	Mar/84	100%
		Tranfield 2288	Parksville	0.6	Prepare and pave	Mar/84	100%
		Allenby 2414	Parksville	0.1	Prepare and pave	Mar/84	100%
	J-6305	Brittain Boulevard 2417	Parksville	0.1	Prepare and pave	Mar/84	100%
	J-6305	Carmel Place 804	Whiskey Creek	0.3	Recap	Aug/83	100%
			Nanoose Bay	0.3	Prepare and pave	Aug/83	100%
Courtenay	C-0155A	Courtenay Foreman Area	Downstream from 17th St. Bridge		Downstream tie up for boats near the 17th Street Bridge	July/83	100%
	C-0155B	Enns Road	Courtenay Foreman Area	0.3	Gravel and pave	July/83	100%
	C-0155C	Headquarters Road	Courtenay Foreman Area	1.0	Ditch casanave drainage easement	Aug/83	100%
	C-0155D	Back Road	Courtenay Foreman Area	1.27	Shoulder widening, ditching and repave	July/83	100%
	C-0155E	Read Island Road	Campbell River Foreman Area	5.0	Road widening and install culverts	June/83	100%

Statement as to Major Highway Work (Day Labour Only) Completed or in Progress During Fiscal Year 1983/84 - Continued

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Courtenay (cont'd)	C-0155F	Seawave and Second	Campbell River Foreman Area	0.3	Ditch, culvert installation and regravel	May/83	100%
	C-0155H	Island Highway 19	Sayward Foreman Area	0.4	Pave Eve River rest area	July/83	100%
	C-0155J	Port Alice Road	Port Hardy Foreman Area	3.0	Replace culvert and shoulder widening	June/83	100%
	C-0155K	Granite Bay Road	Quadra Island Foreman Area	0.1	Culvert installation	June/83	100%
	C-0155L	Lacon Road and Pickles Road	Denman Island Foreman Area	2.0	Ditching, shoulder widening and pave	Aug/83	100%
	C-0155N	Alert Bay Sea Wall	Sointula Foreman Area	0.3	Recap	Feb/84	100%
	C-0155P	Miscellaneous Roads - Alert Bay	Sointula Foreman Area	4.5	Shouldering, patching, regravel roads	June/83	100%
	C-0155Q	Miscellaneous Roads	Sointula Foreman Area		Rock haul for riprap	Apr/83	100%
	C-0155Z	Miscellaneous Roads	Courtenay District		Gravelling, machine paving, clearing and grubbing	Sept/83	100%
	C-1798	Island Highway 19	Courtenay Foreman Area	17.1	Shoulder widening, ditching, culvert installation	Apr/83	98%
	C-2165	Miscellaneous Roads	Courtenay Foreman Area	10.6	Inverted prime surface treatment	May/83	100%
	C-2166	Whaletown Road	Quadra Island Foreman Area	0.2	Alter road alignment	Sept/83	100%
	C-2167	Various Roads	Quadra Island Foreman Area	0.2	Recap	Sept/83	100%
	C-2168	Lacon Road	Denman Island Foreman Area	2.2	Pave	Aug/83	100%
	C-2169	Highway 19	Courtenay Foreman Area	0.2	Installed gabions for river bank stabilization	Aug/83	100%
	C-2170	Highway 28	Gold River Foreman Area	0.4	Machine patch	July/83	100%
				57.5	Machine brushing	Oct/83	100%
	C-2171	Various Roads	Campbell River Foreman Area	0.7	Repave roads	Sept/83	100%
	C-2172	Condensory Road	Courtenay Foreman Area	1.6	Gravel and pave	Nov/83	100%
	C-2173	West Road	Quadra Island Foreman Area	0.3	Road widening	July/83	100%
	C-2174	Malcolm Island Road	Sointula Foreman Area		Purchase multiplate		100%
	C-2175	Island Highway 19	Sayward Foreman Area	10.4	Pave Eve River rest area	July/83	100%
	C-2176	Various Roads	Hornby Island Foreman Area	12.0	Handbrushing, patching and culvert maintenance	June/83	100%
	C-2177	Zeballos Road	Woss Foreman Area	2.0	Road bed construction, machine pave and culvert installation	June/83	100%
	C-2178	Highway 19	Port Hardy Foreman Area	0.3	Regravel shoulders, ditching and repave	July/83	100%
	C-2179	Headquarters Road	Courtenay Foreman Area	2.24	Ditch, shoulder widening, fence, brushing, culvert installation and recap	July/83	100%
	C-2435	Highway 28	Campbell River/Gold River Foreman Area	0.2	Construct bridge approaches to Buttle Lake	Jan/84	30%
	C-2539A	Various Roads	Courtenay Foreman Area	5.7	Pave	Feb/84	100%
	C-2539B	Various Roads	Campbell River Foreman Area	1.3	Pave	Feb/84	100%
	C-2577	Various Roads	Campbell River Foreman Area	1.0	Pave	Feb/84	100%
	C-2578	Whaletown Road	Cortes Island Foreman Area	3.0	Regravel road	Feb/84	100%
	C-2579	Hyacinthe Bay Road	Quadra Island Foreman Area	0.3	Rock blasting	Feb/84	100%

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1984
Courtenay (cont'd)	C-2580	Highway 19	Sayward Foreman Area	0.2	Pave Big Tree rest area	Feb/84	100%
	C-2581	Highway 19	Woss Foreman Area	2.0	Ditching	Feb/84	100%
	C-2582	Alert Bay Arterial	Sointula Foreman Area	2.0	Repave	Feb/84	100%
	C-2583	Port Alice Road	Port Hardy Foremen Area	0.2	Recap	Feb/84	100%
	C-2586	Denman Road	Denman Island Foreman Area	0.1	Repave and clean up slide area	Mar/84	100%
	C-2587	Stracton Valley Road and Central Road	Hornby Island Foreman Area	0.1	Reconstruct intersection	Mar/84	100%
	C-2588	Hawkins Road	Courtenay Foreman Area	0.6	Pave	Mar/84	100%
	C-2611	Hyacinthe Bay and Bold Point Road	Quadra Island Foreman Area	6.0	Gravelling	Mar/84	100%
	C-2612	Nimpkish Heights	Port Hardy Foreman Area	2.5	Regravel road	Mar/84	100%
	C-2613	York Road	Campbell River Foreman Area	3.5	Regravel road	Mar/84	100%
	C-2614	Seaford Road	Cortes Island Foreman Area	2.5	Regravel road	Mar/84	100%
	C-2615	Various Roads	Courtenay Foreman Area	7.1	Regravel roads	Mar/84	100%

HIGHWAYS STATISTICS

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Class
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	Ministry of Transportation & Highways							Ministry of Energy, Mines and Natural Resources	
		Trunk Highways	Main Highways	Other Roads		Total Distance Open	Distance Not Open	Trails	Roads	Trails
				Collector	Minor					
REGION 1										
11. North Vancouver.	Provincial	8.22	75.10	98.84	107.57	289.73	15.52	.....	.....	.....
	Classified	51.39	79.49	13.91	5.35	150.14	.....	.....	.....	.....
12. Gibsons.....	Provincial	.....	121.48	126.73	305.37	553.58	165.28	26.79	.....	.....
	Classified	.....	18.95	.24	6.40	25.59	.....	.....	.....	.....
14. New Westminster.	Provincial	1.23	4.73	32.23	36.16	74.35	3.46	.....	.....	.....
	Classified	276.92	155.83	98.25	5.69	536.69	18.78	.....	.....	.....
15. Chilliwack.....	Provincial	269.49	4.83	149.07	423.15	846.54	45.71	74.82	20.11	139.02
	Classified	126.07	58.53	63.87	1.53	250.00	.....	.....	.....	.....
Regional Totals..	Provincial	278.94	206.14	406.87	872.25	1764.20	229.97	101.61	20.11	139.02
	Classified	454.38	312.80	176.27	18.97	962.42	18.78	.....	.....	.....
REGION 2										
21. Kamloops.....	Provincial	310.00	137.10	391.40	1113.00	1951.50	79.20	204.40	.....	.....
	Classified	51.00	6.70	.....	.....	57.70	.....	.....	.....	.....
22. Salmon Arm.....	Provincial	194.15	.....	453.06	582.72	1229.93	126.02	.....	22.54	76.97
	Classified	23.39	5.64	21.88	.....	50.91	.....	.....	.....	.....
23. Vernon.....	Provincial	134.69	8.85	402.95	470.26	1016.75	83.99	33.60	57.92	67.57
	Classified	53.13	.....	25.76	.....	78.89	.....	.....	.....	.....
24. Penticton.....	Provincial	297.45	.....	394.67	708.10	1400.22	55.65	111.98	29.36	149.06
	Classified	37.32	.....	18.20	.....	55.52	.....	.....	.....	.....
25. Merritt.....	Provincial	157.72	86.29	407.95	558.45	1210.41	14.91	.....	12.39	8.05
	Classified	5.47	8.49	.....	.....	13.96	.....	.....	.....	.....
26. Lillooet.....	Provincial	74.00	158.20	154.07	635.90	1022.17	58.20	.....	.....	.....
	Classified	7.60	9.40	.....	.....	17.00	.....	.....	.....	.....
27. 100 Mile House.	Provincial	140.87	62.30	562.20	1231.08	1996.45	153.56	153.92	9.60	117.12
	Classified	4.43	.....	.....	2.62	7.05	.....	.....	.....	.....
29. Kelowna.....	Provincial	45.43	30.21	237.46	677.93	991.03	243.55	.....	.....	.....
	Classified	43.96	11.86	14.66	.....	70.48	.....	.....	.....	.....
Regional Totals..	Provincial	1354.31	482.95	3003.76	5977.44	10818.46	815.08	503.90	131.81	418.77
	Classified	226.30	42.09	80.50	2.62	351.51	.....	.....	.....	.....
REGION 3										
31. Nelson.....	Provincial	165.10	41.10	135.10	375.63	716.93	36.94	.....	145.16	20.12
	Classified	9.38	.....	.58	.....	9.96	.....	.....	.....	.....
32. Rossland.....	Provincial	155.62	15.83	58.02	293.31	522.78	90.63	.....	5.55	.....
	Classified	35.12	3.91	1.29	.....	40.32	2.02	.....	.....	.....
33. Grand Forks....	Provincial	133.73	96.01	167.02	625.46	1022.22	48.37	.....	19.55	.....
	Classified	15.39	.....	1.98	.....	17.37	.....	.....	.....	.....
34. New Denver.....	Provincial	162.60	148.40	73.30	317.50	701.80	57.34	.....	279.50	67.20
	Classified	4.30	7.10	.....	.....	11.40	.....	.....	.....	.....
35. Cranbrook.....	Provincial	217.00	.....	218.90	571.10	1007.00	65.90	.....	19.30	.....
	Classified	15.60	.....	4.00	.....	19.60	.....	.....	.....	.....
36. Fernie.....	Provincial	114.47	21.45	96.02	397.61	629.55	313.31	.....	.....	.....
	Classified	32.48	11.02	19.77	.....	63.27	.....	.....	.....	.....
37. Golden.....	Provincial	260.40	.....	6.50	511.90	778.80	95.80	.....	274.10	74.00
	Classified	9.00	.....	4.40	.....	13.40	2.50	.....	.....	.....
38. Revelstoke.....	Provincial	71.32	110.76	15.24	255.94	453.26	31.18	.80	15.93	83.85
	Classified	8.99	1.39	7.22	6.81	24.41	.....	.....	.....	.....
39. Creston.....	Provincial	180.17	13.31	57.12	298.77	549.37	37.86	.....	.....	.....
	Classified	5.36	.....	2.03	.....	7.39	.....	.....	.....	.....
Regional Totals..	Provincial	1460.41	446.86	827.22	3647.22	6381.71	777.53	.80	759.09	245.17
	Classified	135.62	23.42	41.27	6.81	207.12	4.52	.....	.....	.....

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS
AND CLASSIFIED HIGHWAYS

by Class
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	Ministry of Transportation & Highways							Ministry of Energy, Mines and Natural Resources	
		Trunk Highways	Main Highways	Other Road		Total Distance Open	Distance Not Open	Trails	Roads	Trails
				Collector	Minor					
REGION 4										
41. Prince George...	Provincial	417.73	45.58	153.21	877.64	1494.16	305.93	.....	.....	.....
	Classified	57.88	20.44	2.16	.....	80.48	.....	.....	.....	.....
42. Quesnel.....	Provincial	174.30	79.80	451.00	1504.85	2209.95	78.92	93.86	288.11	535.90
	Classified	11.12	.15	6.75	.38	18.40	.....	.....	.....	.....
43. Dawson Creek....	Provincial	341.16	51.20	1703.70	500.48	2598.54	2036.77	.....	.....	.....
	Classified	32.22	68.00	1.72	.....	101.94	.....	.....	.....	.....
44. Fort St. John...	Provincial	69.60	128.62	1518.60	792.93	2509.75	1340.10	.....	.....	.....
	Classified	7.58	22.63	33.97	12.78	76.88	.....	.....	.....	.....
45. Vanderhoof.....	Provincial	116.37	53.50	539.59	722.30	1431.76	326.72	297.85	416.68	233.45
	Classified	27.70	10.75	7.60	.....	46.05	.....	.....	.....	.....
46. McBride.....	Provincial	.....	355.93	.....	378.46	734.39	36.21	.....	.....	.....
	Classified	.....	1.19	2.32	.....	3.51	.....	.....	.....	.....
47. Williams Lake...	Provincial	61.86	455.99	162.62	2362.45	3042.92	111.02	596.89	90.67	268.59
	Classified	6.09	3.12	7.40	.....	16.61	.....	.....	.....	.....
Regional Totals...	Provincial	1181.02	1170.62	4530.72	7139.11	14021.47	4235.67	988.60	795.46	1037.94
	Classified	142.59	126.28	61.92	13.08	343.87	.....	.....	.....	.....
REGION 5										
51. Prince Rupert...	Provincial	120.99	194.86	.....	150.20	466.05	76.76	54.48	53.27	.....
	Classified	44.67	50.34	4.20	.....	99.21	.....	.....	.....	.....
52. Terrace.....	Provincial	136.54	51.11	100.06	164.72	452.43	139.77	133.31	.....	57.49
	Classified	5.95	6.60	6.30	.....	18.85	.....	.....	.....	.....
53. Dease Lake.....	Provincial	.....	564.36	45.96	260.87	871.19	.50	1281.90	.....	.....
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
54. Smithers.....	Provincial	255.76	.....	173.36	617.97	1047.07	134.26	611.42	28.48	435.22
	Classified	13.73	.....	1.02	7.30	22.05	.....	.....	.....	.....
55. Burns Lake.....	Provincial	123.10	22.20	422.40	445.40	1013.10	98.50	.....	.....	137.60
	Classified	36.20	.70	2.30	.....	39.20	.....	.....	.....	.....
Regional Totals...	Provincial	636.37	832.53	741.78	1639.16	3849.84	449.79	2081.11	81.75	630.32
	Classified	100.55	57.64	13.82	7.30	179.31	.....	.....	.....	.....
REGION 6										
61. Nanaimo.....	Provincial	92.15	36.00	353.65	698.92	1180.72	102.58	18.40	28.32	22.40
	Classified	48.34	9.33	6.84	25.80	89.51	.....	.....	.....	.....
62. Saanich.....	Provincial	23.24	71.00	242.46	799.77	1136.47	129.35	.....	.....	69.26
	Classified	37.35	34.98	27.49	1.11	100.93	.....	.....	.....	.....
63. Port Alberni....	Provincial	174.10	43.50	35.30	656.30	909.20	420.40	29.90	7.20	.....
	Classified	16.31	10.60	.....	.....	26.91	.....	.....	.....	.....
64. Courtenay.....	Provincial	286.52	154.30	43.40	939.28	1423.50	176.54	376.80	.....	106.10
	Classified	42.78	28.30	.....	25.10	96.18	.....	.....	.....	.....
Regional Totals...	Provincial	576.01	304.80	674.81	3094.27	4649.89	828.87	425.10	35.52	197.76
	Classified	144.78	83.21	34.33	51.21	313.53	.....	.....	.....	.....
Totals.....	Provincial	5487.06	3443.90	10185.16	22369.45	41485.57	7336.91	4101.12	1823.74	2668.98
	Classified	1204.22	645.44	408.11	99.99	2357.76	23.30	.....	.....	.....
Grand Totals.....	Provincial & Classified	6691.28	4089.34	10593.27	22469.44	43843.33	7360.21	4101.12	1823.74	2668.98

HIGHWAY STATISTICS
STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Surface Type
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	A Portland Cement Concrete	A Bituminous Plantmix	B Bituminous Roadmix & Soil Cement	C Gravelled	D Not Gravelled	Total km Open	Right-of-Way Cleared	Right-of-Way Established	Total Distance Not Open
REGION 1										
11. North Vancouver.	Provincial	2.00	117.31	55.91	113.59	.92	289.73	6.58	8.94	15.52
	Classified	.....	145.69	.....	4.45	.....	150.14	.....	.....	.....
13. Gibsons.....	Provincial	.....	276.24	97.00	162.14	18.20	553.58	19.91	145.37	165.28
	Classified	.....	24.71	.88	.....	.....	25.59	.....	.....	.....
14. New Westminster.	Provincial	2.67	50.15	12.75	8.57	.21	74.35	3.12	.34	3.46
	Classified	1.49	518.66	16.54	.....	.....	536.69	3.94	14.84	18.78
15. Chilliwack.....	Provincial	.....	491.56	63.18	219.24	72.56	846.54	33.50	12.21	45.71
	Classified	1.88	218.08	29.71	.33	.....	250.00	.....	.....	.....
Regional Totals...	Provincial	4.67	935.26	228.84	503.54	91.89	1764.20	63.11	166.86	229.97
	Classified	3.37	907.14	47.13	4.78	.....	962.42	3.94	14.84	18.78
REGION 2										
21. Kamloops.....	Provincial	.....	345.60	340.80	1038.50	226.60	1951.50	74.60	4.60	79.20
	Classified	.....	51.00	6.70	.....	.....	57.70	.....	.....	.....
22. Salmon Arm.....	Provincial	.....	399.12	149.14	543.40	138.27	1229.93	77.25	48.77	126.02
	Classified	.....	50.91	.....	.....	.....	50.91	.....	.....	.....
23. Vernon.....	Provincial	.....	274.38	201.13	485.87	55.37	1016.75	.....	83.99	83.99
	Classified	.....	67.06	11.83	.....	.....	78.89	.....	.....	.....
24. Penticton.....	Provincial	.....	368.69	424.89	421.49	185.15	1400.22	.....	55.65	55.65
	Classified	.....	50.22	5.30	.....	.....	55.52	.....	.....	.....
25. Merritt.....	Provincial	.....	244.87	217.75	458.52	289.27	1210.41	9.62	5.29	14.91
	Classified	.....	8.97	4.99	.....	.....	13.96	.....	.....	.....
26. Lillooet.....	Provincial	.....	84.80	231.40	642.77	63.20	1022.17	.....	58.20	58.20
	Classified	.....	17.00	.....	.....	.....	17.00	.....	.....	.....
27. 100 Mile House..	Provincial	.....	326.74	139.84	1254.93	274.94	1996.45	115.16	38.40	153.56
	Classified	.....	6.51	.54	.....	.....	7.05	.....	.....	.....
29. Kelowna.....	Provincial	.....	551.50	179.52	221.90	38.11	991.03	212.49	31.06	243.55
	Classified	.....	61.55	8.26	.67	.....	70.48	.....	.....	.....
Regional Totals...	Provincial	.....	2595.70	1884.47	5067.38	1270.91	10818.46	489.12	325.96	815.08
	Classified	.....	313.22	37.62	.67	.....	351.51	.....	.....	.....
REGION 3										
31. Nelson.....	Provincial	.30	259.48	118.10	277.83	61.22	716.93	1.60	35.34	36.94
	Classified	.30	9.66	.....	.....	.....	9.96	.....	.....	.....
32. Rossland.....	Provincial	.42	247.80	112.27	134.72	27.57	522.78	18.98	71.65	90.63
	Classified	.....	40.32	.....	.....	.....	40.32	.....	2.02	2.02
33. Grand Forks.....	Provincial	.....	176.50	316.22	314.09	215.41	1022.22	19.72	28.65	48.37
	Classified	.....	17.37	.....	.....	.....	17.37	.....	.....	.....
34. New Denver.....	Provincial	.....	104.90	252.20	242.80	101.90	701.80	2.76	54.78	57.54
	Classified	.....	3.50	7.90	.....	.....	11.40	.....	.....	.....
35. Cranbrook.....	Provincial	.....	274.50	111.20	397.10	224.20	1007.00	14.00	51.90	65.90
	Classified	.....	15.60	4.00	.....	.....	19.60	.....	.....	.....
36. Fernie.....	Provincial	.....	157.70	133.41	204.06	134.38	629.55	73.05	240.26	313.31
	Classified	.....	62.40	.....	.87	.....	63.27	.....	.....	.....
37. Golden.....	Provincial	.....	355.20	81.40	312.50	29.70	778.80	80.70	15.10	95.80
	Classified	.....	12.20	1.20	.....	.....	13.40	.....	2.50	2.50
38. Revelstoke.....	Provincial	.....	203.36	114.60	103.22	32.08	453.26	25.79	5.39	31.18
	Classified	.....	24.01	.40	.....	.....	24.41	.....	.....	.....
39. Creston.....	Provincial	1.08	223.58	120.77	157.83	46.11	549.37	13.99	23.87	37.86
	Classified	.....	7.39	.....	.....	.....	7.39	.....	.....	.....
Regional Totals...	Provincial	1.80	2003.02	1360.17	2144.15	872.57	6381.71	250.59	526.94	777.53
	Classified	.30	192.45	13.50	.87	.....	207.12	.....	4.52	4.52

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Surface Type
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	A Portland Cement Classified	A Bituminous Plantmix	B Bituminous Roadmix & Soil Cement	C Gravelled	D Not Gravelled	Total km Open	Right-of-Way Cleared	Right-of-Way Established	Total Distance Not Open
REGION 4										
41. Prince George...	Provincial	.....	500.22	113.07	662.70	218.17	1494.16	146.19	159.74	305.93
	Classified	.....	**70.90**	.....	**9.58**	.....	**80.48**	.....	.....	.....
42. Quesnel.....	Provincial	.....	542.39	14.38	1285.60	367.58	2209.95	43.67	35.25	78.92
	Classified	**.59**	**17.81**	.....	.....	.....	**18.40**	.....	.....	.....
43. Dawson Creek....	Provincial	.....	533.54	32.90	1740.53	291.57	2598.54	57.47	1979.30	2036.77
	Classified	.....	**75.97**	.....	**25.97**	.....	**101.94**	.....	.....	.....
44. Fort St. John...	Provincial	.....	255.07	46.20	1795.08	413.40	2509.75	47.90	1292.20	1340.10
	Classified	.....	**62.58**	.....	**14.30**	.....	**76.88**	.....	.....	.....
45. Vanderhoof.....	Provincial	.....	270.93	4.10	1065.67	91.06	1431.76	102.44	224.28	326.72
	Classified	.....	**41.85**	.....	**4.20**	.....	**46.05**	.....	.....	.....
46. McBride.....	Provincial	.....	332.75	93.25	246.39	62.00	734.39	22.86	13.35	36.21
	Classified	.....	**2.45**	**1.06**	.....	.....	**3.51**	.....	.....	.....
47. Williams Lake...	Provincial	.....	434.97	4.89	1442.71	1160.35	3042.92	73.04	37.98	111.02
	Classified	.....	**16.61**	.....	.....	.....	**16.61**	.....	.....	.....
Regional Totals...	Provincial	.....	2869.87	308.79	8238.68	2604.13	14021.47	493.57	3742.10	4235.67
	Classified	**.59**	**288.17**	**1.06**	**54.05**	.....	**343.87**	.....	.....	.....
REGION 5										
51. Prince Rupert...	Provincial	.....	283.66	.60	153.79	28.00	466.05	.....	76.76	76.76
	Classified	.....	**95.05**	**2.16**	**2.00**	.....	**99.21**	.....	.....	.....
52. Terrace.....	Provincial	.....	269.28	7.29	173.01	2.85	452.54	49.79	89.98	139.77
	Classified	.....	**18.85**	.....	.....	.....	**18.85**	.....	.....	.....
53. Pinaze Lake.....	Provincial	.....	32.36	147.38	582.67	108.78	871.19	.....	.50	.50
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
54. Smithers.....	Provincial	.....	308.16	2.28	695.48	41.15	1047.07	17.11	117.15	134.26
	Classified	.....	**22.05**	.....	.....	.....	**22.05**	.....	.....	.....
55. Burns Lake.....	Provincial	.....	242.20	.....	588.50	182.40	1013.10	58.70	39.80	98.50
	Classified	.....	**39.20**	.....	.....	.....	**39.20**	.....	.....	.....
Regional Totals...	Provincial	.....	1135.66	157.55	2193.45	363.18	3849.84	125.60	324.19	449.79
	Classified	.....	**175.15**	**2.16**	**2.00**	.....	**179.31**	.....	.....	.....
REGION 6										
61. Nanaimo.....	Provincial	.....	519.00	288.12	372.45	1.15	1180.72	4.58	98.00	102.58
	Classified	.....	**89.51**	.....	.....	.....	**89.51**	.....	.....	.....
62. Saanich.....	Provincial	.....	339.11	422.95	353.84	20.57	1136.47	12.08	117.27	129.35
	Classified	.....	**83.11**	**17.82**	.....	.....	**100.93**	.....	.....	.....
63. Port Alberni....	Provincial	.....	469.70	123.90	314.40	1.20	909.20	10.30	410.10	420.40
	Classified	.....	**26.91**	.....	.....	.....	**26.91**	.....	.....	.....
64. Courtenay.....	Provincial	**.40**	664.30	320.30	431.30	5.20	1423.50	11.95	164.59	176.54
	Classified	.....	**88.10**	**8.08**	.....	.....	**96.18**	.....	.....	.....
Regional Totals...	Provincial	**.40**	1994.11	1155.27	1471.99	28.12	4649.89	38.91	789.96	828.87
	Classified	.....	**287.63**	**25.90**	.....	.....	**313.53**	.....	.....	.....
Totals.....	Provincial	**6.87**	11533.62	5095.09	19619.19	5230.80	41485.57	1460.90	5876.01	7336.91
	Classified	**4.26**	**2163.76**	**127.37**	**62.37**	.....	**2357.76**	**3.84**	**19.36**	**23.30**
Grand Totals.....	Provincial & Classified	11.13	13697.38	5222.46	19681.56	5230.80	43843.33	1464.84	5895.37	7360.21

REPORT OF THE INSURANCE AND CLAIMS OFFICER

G.A. Cavin

The period involved in the motor vehicle statistics is from April 1, 1983 to March 31, 1984.

The number of traffic accidents involving vehicles owned by (or leased to) the government was 1,434, including 152 accidents in which the government vehicles were parked. In the previous year there were 1,597 accidents.

MOTOR VEHICLES INVOLVED IN ACCIDENTS (1982/83 figures in parentheses)

Ministry	Number of Accidents		Number of Vehicles		Per Cent of Vehicles		Per Cent of Accidents	
Agriculture and Food	11	(22)	192	(258)	1.9	(2.3)	.76	(1.4)
Attorney General	128	(123)	894	(940)	8.7	(8.5)	8.89	(7.7)
Consumer and Corporate Affairs	12	(6)	52	(54)	.5	(.5)	.83	(.4)
Liquor Distribution Branch		(4)	22	(22)	.2	(.2)		(.2)
Energy, Mines and Petroleum Resources	12	(17)	85	(123)	.8	(1.1)	.83	(1.1)
Environment	55	(90)	475	(602)	4.6	(5.5)	3.82	(5.6)
Finance	6	(7)	58	(73)	.6	(.7)	.42	(.4)
Forests	260	(416)	1,646	(1,507)	16.1	(13.7)	18.06	(25.9)
Health	171	(198)	1,001	(1,050)	9.8	(9.5)	11.88	(12.3)
Human Resources	89	(84)	503	(491)	4.9	(4.5)	6.18	(5.2)
Labour	14	(15)	194	(195)	1.9	(1.8)	.97	(.9)
Lands, Parks and Housing	51	(63)	449	(488)	4.4	(4.4)	3.54	(3.9)
Provincial Secretary and Government Services	18	(25)	109	(110)	1.1	(1.0)	1.25	(1.6)
Transportation and Highways	610	(532)	4,500	(5,040)	43.9	(45.8)	42.36	(33.1)
Tourism	1	(2)	37	(32)	.4	(.3)		(.1)
All Other Ministries	2	(3)	16	(22)	.2	(.2)	.21	(.2)
TOTAL	1,440*	(1,607)	10,233	(11,007)	100.0	(100.0)	100.0	(100.0)

* There were six accidents involving two or more vehicles of different ministries.
There were 61 accidents involving two or more vehicles of the same ministry.

Recovered from the Insurance Corporation of British Columbia and other automobile liability insurers, was an amount of $312,419.91 for damages to government vehicles.

Claims other than those arising out of accidents involving government motor vehicles resulted in recovery of repair costs of $664,526.82 in 498 accidents for damages to guardrails, bridges, signs, lamp or signal standards, fences, posts and miscellaneous items such as flagging, cleanup of spills, pavement repairs and vandalism.

Some of the major items of recovery were $23,975 for damages of a Bailey bridge in the Dease Lake Highway district; $12,106 for repairs of Bonaparte Bridge in the Lillooet Highway district; and $75,000 for damage to Cottonwood Bridge in the Quesnel Highway district.

Not included in these recoveries were nine claims against insurance policies purchased by the government, totalling $13,383. Major claims were $3,000 for theft of audio visual equipment and $3,800 recovered from Carving Shed fire. Also not included is $13,375 recovered from B.C. Steamship Co. Insurers.

Not included in the foregoing are 53 claims arising from the transferring of government employees, 52 of these being for damage to household effects, and one for damage to a mobile home. The amount recovered from the Provincial Government's insurers and the carriers totalled $11,297.34.

The total paid out for 190 miscellaneous third-party claims was $125,599.05, including $30,020.16 for claims handled on behalf of British Columbia Steamship Company, and $8,770.17 paid out for claims arising from operations of ministry ferries. The largest single claim paid out was $2,500 for injuries sustained aboard a Ministry ferry.

In 23 law suits in which the government was the defendant, eight were settled out of court, three were withdrawn, six were dismissed, one judgment was given in favour of the plaintiff, and five were discontinued.

In ten cases in which the government was plaintiff, nine were settled out of court and one was recovered out of court.

There are presently 141 cases in various stages of litigation, the government being the plaintiff in 32 of these.

Considerable time was devoted to the arranging and placing of special project insurances relating to the Annacis System and Garibaldi Highway 99. As these insurances were paid for directly by the ministry, this explains the substantial increase in premiums in the following summary.

PREMIUMS PAID FOR INSURANCE PLACED DURING 1983/84:	B.C. Steamship Co. (1975) Ltd.	$ 79,494.00
	Ministry of Transportation and Highways	585,774.74
	Commissions and other ministries	172,197.41
	TOTAL	$ 837,466.15

HIGHWAYS OPERATIONS

REPORT OF THE DIRECTOR OF HIGHWAYS DESIGN AND SURVEYS

E.E. Readshaw, P. Eng.

Program

Highway designs and surveys worked on during the fiscal year April 1, 1983 to March 31, 1984 are listed in this report. There are 365 projects representing 2446.76 km of two and four lane highways.

Design Activities

Of the designs completed, 20 major projects representing 64.00 km, were awarded to contract and 71 projects for construction by the Ministry's own forces, representing 234 km of minor highway or accesses. Included in the major projects was an 18.55 km section of Highway 37.

The main areas of design effort this year have been the Annacis Project, the Vancouver-Squamish Highway, Highway 97 in the Okanagan area, Highway 16 between Prince George and Prince Rupert, Highway 97 in the Pine Pass area and Highway 97 near Quesnel.

The Annacis Project is now well into the construction phase and design work is proceeding on many sub-projects. The provisions of material for the road embankment from the Fraser River, the design of work for the pier bases, the relocation of the Burlington Northern in the vicinity of Highway 10 and the preliminary concepts for the east/west connection to Highway 99, which will replace the Westminster Highway, are all sections of the project which have absorbed much design time and required many meetings with municipal authorities to satisfactorily resolve the many conflicting requirements.

Vancouver-Squamish Highway 99 Studies done in the previous year indicated that alternative routes to the existing highway would prove more costly and could pose the same kind of natural hazards as the existing highway. Therefore designs proceeded on upgrading the present highway and in particular on Debris Torrent Control Facilities for a number of the major creeks. These projects will be ready for contract early in the 1984/85 fiscal year.

The Okanagan Highway has received much attention this year with four laning projects at Penticton and Kelowna let to contract in early spring.

Work on Highway 16 between Terrace and Prince Rupert has seen the finished design of the section between Khyex River and Tyee, a section which indicate an overhead of the CNR at Tyee and five other new bridges on various creeks. This completes the design of the new highway between the two centers. Further east, design is proceeding on the old Hart Highway east of Pine Pass. These old sections are quite substandard and are subject to avalanches. Overheads of the CNR are under consideration at Burns Lake, Vanderhoof and Prince George. These will be required when the coal train from the Northeast Coal project build up to their capacity in the next few years.

The following table is a listing of the projects being designed and shows the three principal stages of investigation. Preliminary Studies being work carried out to determine the most acceptable and feasible alignment, surveys which consists of field work to obtain engineering detail, and; design in which final detailed plans are prepared for construction.

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 1					
Capilano Interchange	0.5	97			Upgrading for 6 Lane Freeway Design
Capilano - Lynn Valley (including Westview and Lonsdale)	6.9		92	60	6 Lane Freeway Design
Cassiar Street Study	2.0	99	100		Environmental & Social Study
Vedder Interchange (Old Yale Road)	0.8	95			
Annis Road Interchange	0.5		75	6	Elimination of Grade Intersection
Wahleach Power Station - Jones Creek	10.5		80	42	4 Lane Design
SW 1/4, Sec. 9, Tp. 20, R. 19 - Cornwall Lodge	3.9		100	40	4 Lane Relocation
Valleyview - Campbell Creek		35			
Salmon River - Shuswap Avenue	2.1	20			
Shuswap Avenue - 40th Street NW (Salmon Arm)	4.6	90			4 Lane Curb & Gutter

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 1 - continued					
Oregon Jack - Cache Creek	40.0		100	95	4 Lane Design
Three Valley Gap	1.0		100		Upgrade Intersection Study
Revelstoke (Highway 23 and Victoria Road West Interchange)	2.2	100			Proposed Interchange to Replace Intersection
Revelstoke (Highway 23 and Victoria Road West Intersection)	0.5		90	10	Improve Grade Intersection
Edelweiss - Golden	2.0		50	5	
Golden - Yoho Bridge	11.0		10		4 Lane Design
East of Yoho Bridge	4.0		50	50	4 Lane Design
Thetis Overhead to Spencer Road	15.0	60			Study for Future Multilane
Malahat (km 20.0 to km 21.5)	2.2		100	97	
Mill Bay - Duncan	15.0		67		Upgrade existing 4 Lane and Frontage Roads
Beverly Street Intersection (Duncan Area)	0.3		100	95	New Intersection
Tourist Information Site Access (Boatland)	0.6		100	100	New Intersection
Westdowne Road - Ladysmith	6.4		100	98	4 Lane Design
Ladysmith - Carmichael Road	6.4		100	99	4 Lane Design
Nicol Street, Nanaimo (South Street - Grace Street)	1.8	66	65		4 Lane Design
Nanaimo Couplet Terminal / Wallace (Grace Street - George Pearson Bridge)	1.5	65	52		Urban Improvement
Cypress Street - B.C. Ferry Terminal	1.2		100	20	4 Lane Curb & Gutter
Dogwood Valley Drainage at Yale	1.3		100	100	
Clearbrook Interchange Site Plan	0.16		100	100	
Peardonville, Mt. Lehman to Abbotsford			100	100	
Clearbrook Interchange	0.77	100	100		
Gordon Creek Site Plan	1.2		100	100	
Texas Creek Site Plan	0.34		100	100	
Gibsons Road Overpass Approaches	0.6		100	100	
Oregon Jack IR 5 (North Ashcroft Junction)	20.0		100	100	4 Lane
Cherry Creek - SW 1/4, S.9, T.20, R.19	6.7		100	99	Upgrading Existing to 4 Lanes
Whippletree Junction Intersection Phipps Road to Bench Road	1.0		100	100	
Junction of Highways 1 & 5 (Merritt Junction) Kamloops	0.3		100	100	

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 1A					
Langley (Railway Separation)	0.6	80			Study for Railway Overpass
Fraser Highway & 88th Avenue I/S			100	100	
Fraser Highway & 96th Avenue I/S				95	
Intersection of Canada Way and Burris	0.5			100	
Intersection of Canada Way and Edmonds	0.5			95	
HIGHWAY 3					
Hope - Nicolum Creek	8.8		80	21	4 Lane Design
Reconstruction of Highway 3 km 47 - km 48	1.0			99	
Manning Park Boundary - Mile 20 (km 26.9 - 33.1	6.2	70			
Mile 20 - Mile 25 (km 33 - 45) (Skagit Bluff Section)	12.4	50			
Hope - Nicolum Creek (km 88 - 114) (Similkameen Falls - Friday Creek)		30			
D.L. 980 to Princeton	5.6		100	80	4 Lane Design
Stirling Creek to Hedley	8.0		100	95	4 Lane Design
Hedley to Winters Creek	6.11		99	20	4 Lane Design
Winters Creek to D.L. 1970	3.2		80		4 Lane Design
D.L. 1970 to Shoemaker Creek	3.2		99		4 Lane Design
Keremeos East Approaches	1.6		100		4 Lane Design
Midway Railway Crossing	1.0		60		Curve Improvement
East of Christina Lake	1.0		100	50	4 Lane Design
Castlegar Interchange	1.0		100	40	Upgrade Interchange Highway 3 and Columbia Street
Salmo - Creston Summit Revision	6.0		100	90	Avalanche Avoidance
Creston Bypass Alice Siding - Arrow Creek	10.6		100	96	New 2 Lane Design
Upper Moyie Lake Section	6.0		100	5	Alignment Improvement
Highway 3 & 95A Interchange at Cranbrook	3.5		100	98	Replace Grade Intersection
CPR Hill Project, Wardner Area	2.0		100	40	Truck Lane
Elko - Morrissey	7.5		25	12	Alignment Improvements
Highway 3 & Erickson Road Intersection	1.0		60		Intersection Improvement
Michel Mouth Bridge to Old Town (Michel Bridge)	3.0		100		

Name of Project	km	Percentage Complete Prelim. Study	Survey	Design	Comments
HIGHWAY 3 - continued					
Rhododendron Flats	1.8			100	4 Lane Passing Section. Turn Slot Required
Rock Creek Intersection	1.0		100	100	
HIGHWAY 3A					
Keremeos to Kaleden (Twin Lake Yellow Lake)	0.8	1	100		4 Lane through I.R. 2 and I.R. 9
Shoreacres Intersection	1.0		100	70	
Nelson Bridge - km 2	2.0		100	65	Alignment Improvement
Crawford Creek Bridge Approaches	1.0		100	40	
HIGHWAY 3B					
Trail - Glenmerry	3.0		100	22	4 Lane Design
HIGHWAY 4					
Cameron River - Alberni Junction	9.6		99		Alignment Improvement
Cameron Lake	5.4		100	95	Alignment Improvement
Lockwood Creek - Cameron River	10.1		99	80	Alignment Improvement
Whiskey Creek - Lockwood Creek	4.98		99		Alignment Improvement
Johnson Road Curb & Gutter	1.0		100	90	4 Lane Design Urban
Bridge Site Plans and Approaches Indian Creek, Tr 19, Hydro Hill West Cedar Creek, Brayden Creek, Canoe Creek Ellis Creek, Mercer Creek & Maureen Creek	9.0		56	25	
HIGHWAY 5					
CN Junction to Heffley Creek	10.0		100	65	
Preachers Hill to D.L. 810	3.2		100	10	2 Lane Alignment Improvement
Shumway Lake - Junction Hwys 1 & 5	16.0		90		4 Lane R/W Study
Clearwater River Bridge, Old North #5	0.7		100	100	
Paul Creek to Heffley Creek Weigh Scale to CN Junction	3.2		100	100	4 Lane Design
HIGHWAY 6					
Aberdeen Road to Ricardo Road East of Vernon	3.7		90	10	4 Lane Design
Dutchman Creek - Monashee Creek Heckman Creek Slide	1.0		5		2 Lane Alignment Upgrade
Vernon Highway 27th St. to 32nd Avenue				95	4 Lane Curb & Gutter & Railway Overpass
Spences Bridge, Merritt Bridge Sites	1.0		100	10	

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 6 - continued					
Cape Horn to Cory Creek, Slocan Bluff	5.92		100	98	2 Lane Alignment Upgrade
Cory Creek - D.L. 1474	6.4		35		2 Lane Alignment Upgrade
Fauquier - Burton Slides Revision	3.0		100		
Inonoaklin Crossing - Deep Creek	12.0		100	75	2 Lane Alignment Upgrade
Needles - Bench Creek	16.0	50			2 Lane Alignment Upgrade
HIGHWAY 7					
Haney - Silverdale, York & Whonnock Cr.			5		
Silverdale Creek - Hurd Road	7.4		95	99	4 Lane Design Urban
Mission Roadworks, Sections 2 & 3 North Approaches to Mission Bridge	0.3		100	100	
Mary Hill Bypass, Section 2	8.0		85	100	Gone to Tender
Haney to Whonnock (Haney-Albion)	7.0		100	100	4 Lane Design
HIGHWAY 7A					
Barnet Highway, Sperling Avenue to D.L. 114	4.5		68	40	4 Lane Design
Barnet Highway, D.L. 114 to St. Johns Street	4.4		68	30	4 Lane Design
HIGHWAY 11					
"C" Street to McLure via Beck, Phase I	4.8	15	85	96	New 4 Lane Route
"C" Street to McLure via Beck, Phase II	4.8		85	30	New 4 Lane Route
Marshall - Delaire	0.8			100	Gone to Tender
HIGHWAY 12					
Lillooet - Station Road Overpass of BCR	0.7		100	99	
HIGHWAY 14					
Sooke Road Passing Lanes (Humpback Road, Section 10)	2.5		100	65	4 Lane Design
Sooke Passing Lanes (Kangaroo Road - Connie Road)	2.0		90	25	4 Lane Design
Jordan River - Port Renfrew Mile 11.5 to Mile 18.5	11.3		100	30	Upgrade 2 Lane Road
Jordan River Bridge Approaches	0.8		100		New Bridge
Gillespie Road Intersection	0.5		60	5	
Kirby Creek Bridge & Approaches	0.8		100	100	
HIGHWAY 16					
Derkson Road to Carmen Hill Road, Vanderhoof	6.5		100	100	CNR Overpass Route
Prince George Fraser River Crossing Airport Hill	3.5	92	80	10	New Fraser River Bridge Route

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 16 - continued					
Khyex River to Tyee Overhead	9.56		100	40	Upgrade 2 Lane Road
D.L. 4804 to Andesite Creek Polywog Creek Overhead	10.7		100	10	Upgrade 2 Lane Road
South Hazelton, Kitsequecla Bridge to Carnaby Crossing	9.4		100	70	New 2 Lane Route Replacement
Kathlyn Lake Road Intersection	0.5		95	95	
Smithers Arterial, Toronto Street to Alberta Street	1.6		100	5	4 Lane Curb & Gutter
Smithers - Telkwa, Section 2 (Telkwa Bypass)	5.3		30		New 2 Lane Route
D.L. 2106 to D.L. 338 West of Houston	2.5		30	5	4 Lane Curb & Gutter
Houston, Butler Avenue to Buck Creek	0.7		95	10	4 Lane Curb & Gutter
Burns Lake Bypass	18.0		20		New Arterial
Exchamsiks River to D.L. 5841	1.5		90	20	
CNR O/P & Approaches, Prince George	1.0		100	100	Gone to Tender
Terrace, Kenney Street - Eby Street	1.1		100	100	Curb & Gutter
CNR Overhead Approaches, Tyee	2.64		100	100	Gone to Tender
HIGHWAY 17					
McKenzie Avenue Interchange	1.0	100			Replace Grade Intersection
Beacon Avenue Interchange	1.0	100	50		Replace Grade Intersection
HIGHWAY 19					
George Pearson Bridge - Princess Royal Avenue	2.9	100	48		6 Lane Design
Northfield Road Intersection	1.0		100	100	Upgrade Intersection
Bowen Road and Rock City Road I/S	1.0		100	95	Upgrade Intersection
Hammond Bay Road - Superior Road	5.0		90	10	4 Lane Upgrade Standard
Highway 4 - Dashwood Parksville - Qualicum Bypass	16		100		Environmental and Engineering Study of New Route
Highway 4 - Hilliers Road (Parksville - Qualicum Bypass)	10.0		100	10	Environmental and Engineering Study of New Route
Parksville Curb & Gutter, Molliet Street to Englishman River	4.1		100	80	4 Lane Design
Pym Road I/S North of Parksville	0.8		5		
French Creek Area, Sunrise Drive I/S	0.5		100	30	
Little Qualicum River, Mistaken Road	1.2		50		
Courtenay Arterial Curb & Gutter Embleton Street to 21st	1.6		100	10	4 Lane Design

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 19 - continued					
Rockland Avenue and Highway 19 Willow Point Area	0.4		100	99	4 Lane Design
Willow Point Curb & Gutter	1.2		100	15	4 Lane Design
Duncan Bay to Menzies Bay	8.0		100	85	Engineering and Environmental Study of Various Routes
Port Hardy to Coal Harbour Area LaMonte Creek Site Plan and Approach	0.5		100	75	New Bridge
Keogh River Site Plan and Approaches	1.2		100	0	New Bridge
Cluxewe River Site Plan & Approaches	1.5		100	100	
HIGHWAY 20					
Bella Coola, Bridge Site Plans	2.0		100	85	New Bridge
Alexis Creek to Bull Canyon	9.4		100	100	Upgrade to 2 Lane Standard
Klinaklini River Bridge Approaches	2.0		100	85	New Bridge
HIGHWAY 22					
Rossland Curb & Gutter, Columbia Avenue	1.6		100		Upgrade Street
Relocation at Murphy Creek	1.0		50		B.C. Hydro Study
Trail - Tadanac Relocation	24.0			30	
HIGHWAY 24					
Phinetta Lake to District Boundary	5.2		100	40	Upgrade to 2 Lane Standard
Little Fort - Phinetta Lake, Section 1	5.0		50	100	Upgrade to 2 Lane Standard
HIGHWAY 28					
Buttle Narrows Site Plan and Approaches	1.1		100	100	New Bridge
Echo Lake, Forbes Landing to Camp 8	8.0		100	15	Upgrade 2 Lane Alignment
HIGHWAY 29					
Site "C" Dam Road Diversion, Sec. 2			100	95	
Site "C" Dam Road Diversion, Sec. 1 Hydraulic Model (Attachie Slide)				65	
Site "C" Dam Road Diversion, Sec. 1			100	100	
Attachie Slide - Halfway River Protective Berms	1.0		100	10	
HIGHWAY 31					
Trout Lake - Gerrard West Side Wilkie Creek to Asher Creek	10.0		80		New 2 Lane Route
Trout Lake - Gerrard West Side Asher Creek - Gerrard	19.0		50		New 2 Lane Route
Relocation of Highway 31 and Davis Creek Bridge at Lardeau	1.0		100	10	

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 31 - continued					
Lost Ledge Creek Culvert	1.0		100	60	
Lardeau Bluffs	0.6		100	25	2 Lane Alignment Improvement
HIGHWAY 33					
Highway 97 MacKenzie Road, Rutland	3.5		80	50	Curb & Gutter
Westbridge Relocation	4.0		100		
HIGHWAY 35					
Overpass CNR at Burns Lake (Highway 16 to Highway 35)	1.0		100	100	
HIGHWAY 37					
Cranberry Creek to Derrick Creek	18.55		100	100	Gone to Tender
Dease Lake - Sawmill Point 2 Lane Road	41.0		95	5	Upgrade Substandard
Burrage River	6.0		90	15	New Bridge
Blue River - Yukon Territory Boundary	30.0		100	95	Upgrade Substandard 2 Lane Road
Todagin Creek	3.2		95	15	New Bridge
HIGHWAY 49					
Dawson Creek Curb & Gutter 8th Street to City Boundary	1.2		100	40	4 Lane Curb & Gutter
HIGHWAY 95					
Radium Junction	1.0		80	10	Upgrade Intersection with 4 Lane Curb & Gutter
Turn Slots	2.0		100	60	
HIGHWAY 95A					
Kimberley Curb & Gutter, Archibald Street - Kimbrook Crescent	1.6		100	25	
Wallinger Avenue and Ross Street Intersection, Kimberley	1.0		100	25	Improve Intersections
HIGHWAY 97					
McAlpine Bridge to Vaseux Lake	10.1		98	5	4 Lane Upgrading
Kaleden Junction	1.4		50	90	Improve Intersection and 4 Lane Design
Penticton - Trout Creek	8.0		100	85	4 Lane Upgrading
Trout Creek - Summerland	8.0		95		4 Lane Upgrading
Westbank Curb and Gutter Gormans Mill to I.R. 9	3.5		100	100	Gone to Tender
Westbank - Kelowna, Section 1 I.R. 9 and East Boundary Road	3.7		96	79	4 Lane Upgrading
Harvey Avenue, Kelowna (Kelowna Bridge to Pandosy Street)	0.75		100	100	Gone to Tender

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 97 - continued					
Harvey Avenue, Kelowna (Pandosy Street to Princess)	1.70		100	25	
Ellison Lake - Wood Lake, Winfield	10.6		95	42	4 Lane Curb & Gutter
Oyama - Bailey Road	9.0		85	60	4 Lane Upgrading
Bailey Road - Vernon	11.0		100	95	4 Lane Upgrading
Vernon 27th Street Extension (32nd Avenue to Reservoir Road)	2.1		60	20	Proposed New Route
Barnhartvale Road to Monte Creek	8.0		100	85	4 Lane Upgrading
Cache Creek to Loon Lake Road	21.0		100		4 Lane Upgrading
Clinton Underpass Approach	2.0		100		Improve Alignment
Mile 83 to Mile 94	17.5		70		Improve Alignment
Borland Creek (150 Mile House)	1.5		30	100	New Culvert
Quesnel Bypass	5.0		60	40	New Route Study
Fifth Avenue Interchange, Prince George	0.7		100	65	Replace Grade Intersection
Bear Lake, BCR Underpass	2.0		95	10	Replace Grade Crossing
Bear Lake to Red Rocky Creek	13.9		100	95	2 Lane Upgrade Alignment
Red Rocky Creek to 42 Mile Creek	19.9		100	40	2 Lane Upgrade Alignment
Bennett Creek - Westpine River Bridge	19.0		30	5	
Chetwynd Underpass BCR Crossing	1.2		91	83	Replace Grade Crossing
Westbank - Kelowna, Section 3 IR 10, Westside Road & Campbell Road	3.7		100	100	
Penticton Channel Parkway, Section 2 (Fairview Road & Eckhardt Avenue)	3.2			100	Gone to Tender
Oyama Road I/S, Left Turn Slot	0.80		100	100	2 Lane
South Peace River Hill	7.0		100		
Quesnel, North Star Interchange	1.6		100	100	
D.L. 8917 to Garbitt Tunnel Section	13.3		100	100	
Fifth Avenue Intersection	0.8	100	5	100	
South Peace River Hill	7.0		100		
HIGHWAY 97A					
Swan Lake to Grozier Road	7.5		90	40	4 Lane Design
HIGHWAY 99					
Taylor Way - Keith Road Intersection			100	25	
Stanley Park Causeway	2.4		90	60	Upgrade Width and Replace Surface

Name of Project	km	Percentage Complete Prelim. Study	Survey	Design	Comments
HIGHWAY 99 - continued					
West Road - Mons	8.0		40		4 Lane Urban Section
Horseshoe Bay - Squamish, Hudson Bay to Lonetree Creek			5		
Horseshoe Bay - Lonetree Creek Montizambert Creek Site Plan			100	100	
Horseshoe Bay - Lonetree Creek Charles Creek Site Plan			100	100	
Horseshoe Bay - Lonetree Creek Charles Creek Debris Basin			70	100	
Horseshoe Bay - Lonetree Creek Newman Creek Site Plan			20	85	
Horseshoe Bay - Lonetree Creek Newman Creek Debris Basin			100		
Horseshoe Bay - Lonetree Creek Lonetree Creek Site Plan			30		
Lonetree Creek to "M" Creek			99	10	
Lonetree Creek to "M" Creek Harvey Creek Site Plan				70	
Lonetree Creek to "M" Creek Harvey Creek Debris Basin & Channel				80	
Lonetree Creek to "M" Creek Alberta Creek Site Plan			100	100	
Lonetree Creek to "M" Creek Alberta Creek Diversion			50		
Lonetree Creek to "M" Creek Magnesia Creek Site Plan			60	76	
Lonetree Creek to "M" Creek Magnesia Creek Debris Basin			60	76	
"M" Creek to Porteau Cove			1		
Porteau Bluffs Alternatives				91	
Porteau Cove to Brittania	1.2	24	28	5	
HIGHWAY 99A					
Intersection of King George Highway and Highway 10	0.3		100	100	
HIGHWAY 101					
Sechelt Four Lane Bypass Airport to Trout Lake	23.3		100	75	Future Arterial Route
MISCELLANEOUS HIGHWAYS					
REGION 1					
Scott Road (Highway 10 to 80th Avenue)	4.2			15	4 Lane Curb & Gutter
Queensborough Bridge (Modify Existing)	2.7	100			Crossing System
Queensborough Bridge, Sixth Avenue & Fifth Avenue Intersection	1.8		100	100	

Name of Project	km	Percentage Complete Prelim. Study	Survey	Design	Comments
MISCELLANEOUS HIGHWAYS - continued					
REGION 1 - continued					
Annacis Dredging Contract No. 6				100	Gone to Tender
Annacis Island, Southside City Reach to Queensborough Bridge	4.2		78	77	
Annacis Truck Route, Belgrade to Carter	2.4		95	95	
Highway 99 - Fraser River, Annacis	8.5		98	77	
Richmond East/West Freeway, Gilley Route	9.4		36	10	
Lillooet River Crossing at Pemberton	0.5		100	100	
Grantham Street Bridge, North Vancouver	0.2	100	100	95	New Bridge
Coquihalla, Section 3 Peers Creek to 10 Mile Creek	5.1		100	94	New 4 Lane Freeway
Coquihalla, Section 5 10 Mile Creek to Sowaqua Creek	3.7		98	63	New 4 Lane Freeway
Coquihalla, Section 6 Sowaqua Creek to Ladner Creek	6.1		90	89	New 4 Lane Freeway
Coquihalla, Section 7 Ladner Creek to Portia	4.3	90		5	New 4 Lane Freeway
Coquihalla, Sections 8 - 11 Portia to Boston Bar Summit	12.8	31			New 4 Lane Freeway
Coquihalla Route, Stage 2, Hope to Lear	14.5	73			Stage 2 Environmental Report
Coquihalla Route, Stage 2, Lear-Dewdney Cr.		6			Stage 2 Environmental Report
Lower Level Route, McKay Creek Bridge Site	0.5		100	100	
Marine Way, Section 2 Byrne - Queensborough Bridge	2.7		100	100	
Annacis Dredging, Contract 2	0.5		100	100	
Annacis Dredging and Pier Protection	0.5			100	Gone to Tender
Annacis Dredging, Contract 4				100	
Annacis Island, Day Labour Project				100	Gone to Tender
North Shore Transportation Study Section 1, Fern Street to Mount Seymour Parkway	3.9	99		100	Gone to Tender
Anderson River		100			
Stormont Interchange		100	95		
Queensborough Connector, Annacis	4.2		90	77	
REGION 2					
Lac Le Jeune Road, Peterson Creek - - Trans-Canada Highway No. 1	10.0		100		
Osoyoos (87th Street Improvements)	3.2		30		

Name of Project	km	Percentage Complete Prelim. Study	Survey	Design	Comments
MISCELLANEOUS HIGHWAYS - continued					
REGION 2 - continued					
Westside to Nahun IR 10 to Wilson's Landing	19.1		70	10	Relocate 2 Lane
Mable Lake Road Through Enderby (IR 2)	4.8		100	90	Improve Alignment and Grade
Kamloops to Summit Drive, Section 2	4.8			10	New 4 Lane Route
Coquihalla, Section 15 Mine Creek to Juliet Creek	5.9		90	32	New 4 Lane Freeway
Coquihalla, Juliet Creek to Brodie	15.8	100	100		New 4 Lane Freeway
Coquihalla, Brodie to Kingsvale	11.0	57	47		New 4 Lane Freeway
Coquihalla, Kingsvale to Merritt	28.0	40			New 4 Lane Freeway
Coquihalla, Merritt Bypass		94	85		New 4 Lane Freeway
Coquihalla, Merritt - Kamloops	73.7	7			New 4 Lane Freeway
Similkameen River Bridge at Keremeos	0.5		95		New Bridge
Highland Valley Road Ashcroft - Highland Valley	8.0		100		Improve Alignment
Halston Interchange to Junction Highway 5 and Paul Lake Road (Kingston Street)	3.2		100	80	New Route Crossing North Thompson River
Vernon Grid Road System CPR Crossing at 48th Avenue			95	20	Connect 48th Across CPR
Logan Lake - Kamloops Highway	2.52		100		
Highland Valley Road, Ashcroft - Highland Valley	8.0		98	70	
Glenmore Street Extension	4.98		100	100	Gone to Tender
Ashcroft Curb & Gutter (1st Street/ Thompson River at CPR Crossing)	0.3		100	100	
Vernon 32nd Street Extension to Swan Lake	2.0			100	
Halston Interchange to Junction Highway 5 and Paul Lake Road	3.2		100	85	
Dry Gulch to Mine Creek No. 13 & 14 Coquihalla	9.34		90	100	Gone to Tender
REGION 3					
Nelson Waterfront Road	1.6		100	15	Design for Municipality
Pass Creek Road	4.0		95	99	Improve Old Road
Syringa Creek - Deer Park	10.0		100		Improve Old Road
Burma Road, Part of Fernie Network	5.0		95	15	New Future Arterial Route
Slocan Valley Bridges, Slocan Park Bridge	0.2		100	15	New Bridges
Slocan Valley Bridges, Passmore Bridge	1.0		100		New Bridges
Slocan Valley Bridges, Vallican Bridge	1.0		100	100	

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
MISCELLANEOUS HIGHWAYS - continued					
REGION 3 - continued					
Wardner - Fort Steel Road, Wildhorse Creek Revision	0.8		5		Improve Alignment of Existing Road
Athalmer - Highways 93 and 95	2.0		100	60	Relocate Old Highway
Lower Toby Creek Road (Invermere - Lillian Lake)	3.0		100	15	Relocate Old Highway
Cranbrook - Kimberley Airport North Access	12.0		50		Proposed New Route
Left Turn Lanes at Roadside Rest Areas (Wasa No. 95)	0.50		100	100	
Left Turn Lanes at Roadside Rest Areas (Yoho & Doyle Creek, Highway 1)	0.50		100	50	
Left Turn Lakes at Roadside Rest Areas (Blaze Creek & Kidd Creek, Highway 3)	0.5		100	50	
Left Turn Lanes at Roadside Rest Areas (Illecillewaet Lookout, Highway 1)	0.5		100	50	
Avis Road (Slocan Valley)	2.5		100	40	Upgrade Alignment
Village of Invermere 6th Street Connection	0.5		75	25	Proposed New Link
Passmore to Vallican, Little Slocan River Crossing	2.0		100	75	
South Fernie Drainage	1.0		75		
Toby Creek Bridge Site (Panorama)	0.5		100		
Lazy Lake Road	14		85		Upgrading
Perry Creek Road	5.0		90		Upgrading
Granite Road (Nelson)	6.0		35		Upgrading
Horsethief Creek Bridge Site	1.0		65		
Brilliant - Glade	3.0		100		
Morrissey Bridge Site Plan	0.5		50		
Pass Creek Road Bridge No. 8	0.5		100		
Fording Road Right-of-Way			100		
Winlaw Bridge Site Plan	1.0		100		
Kettle River Bridge Site and Approaches 13th Street SW Grand Forks	1.0		50		
Trail Creek Culvert, Warfield			100	100	
Elk Valley Road, Sparwood - Cummings Creek	4.0		100	100	
REGION 4					
Patricia Avenue - Northwood Pulp Access, Section 1	2.0		80	15	Proposed Arterial
North Nechako Road - Northwood Pulp Access, Section 2	6.0		75		Proposed Arterial

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
MISCELLANEOUS HIGHWAYS - continued					
REGION 4 - continued					
Northeast Coal Access Feller Heights to Tumbler Ridge	63.0		70		Upgrade Old Road
District Road No. 151 Beatton River Buick Creek to D.L. 2994	40.0		100		Upgrade Old Road
Clayhurst Bridge Site (Peace River Rolla District Road No. 43)	1.0		100		Proposed Bridge
Vanderhoof 4th Street to Victoria Street Boundary Avenue Highway Overhead CNR	1.0		95	10	New Route to Replace CNR Grade Crossing
Heritage Highway Arras to Tupper, Muskeg Lake to Quality Creek	37		70		Upgrade Old Road
MacKenzie Avenue & Glendale Avenue Curb & Gutter, Comer Avenue to Weldwood Access, Williams Lake	3.8		40	40	
Appeasson Bridge, Road 101, Blueberry River, Ft. St. John District	1.0		40		
Fort St. John District Road 255 North	0.7		100	90	
Foothills Blvd: Otway Road - North Nechako Road	2.1		100	100	
Vanderhoof CN Overpass (West)	1.0		100		
REGION 5					
Kitimat Industrial Road from Alcan Road to Kitimat Dock	4.4		40	40	Proposed New Road to Dock
Alyansh, Section 2 Nass River Bridge to Greenville	12.5		100	10	New Route
Nass River Bridge to Alyansh Junction Section 2	30		10		
Cedar River to Tseax Junction (Nass River) Section 1, Cedar River to Sand Lake	10.7		80		
REGION 6					
Nanaimo Bypass (Rifle Range)	23.0		37		
Nanaimo Bypass	23.0		10		
Nanaimo Bypass Study	23.0	100			
Wale Road	0.8		70		Proposed New Street Link
Shawnigan Lake Road (E&N Underpass)	0.8		12		Upgrade Old Road
Compton Road	0.6		100	15	Upgrade Old Road
Crofton Access (Original Route)	6.4		70	96	)Relocate Existing
Crofton Access Alternate Route	7.0		50		)Road and Upgrade)Standard
Wally Creek Site Plan	1.6		98		New Bridge
Marble River Site Plan and Bridge Approaches (Alternate)	1.0		100	40	New Bridge and Relocated Approach

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
MISCELLANEOUS HIGHWAYS - continued					
REGION 6 - continued					
Durrance Lake Road Relocation	5.2	100	95	65	Relocate Old Road to Avoid Weapons Range
Port Albion Bridge and Approaches	2.8		100		New Bridge
Sacht's Bridge and Approaches (Sayward - Kelsey Bay)	2.0		100	20	New Bridge
Riverbottom Road, Section 4	10.0		100	100	
Gold River - Tahsis (Upana Summit - Tlupana Creek)	8.0		100	75	Upgrade Old Forest Access
Rennison No. 7684 Bridge and Approaches	0.6		100	20	New Bridge
Yellowpoint Road, Section 4	1.2		100	99	Upgrade Alignment
Theimer No. 1.2233 Bridge and Approaches (Beaver Cove Road)	1.0		100	20	New Bridge
Tsoulton No. 2163 Bridge and Approaches (Beaver Cove Road)	1.4		100	20	New Bridge
Duke Point Access	5.75		100	99	Upgrade Old Road to 4 Lane
Webb No. 7326 Bridge and Approaches	0.7		98	20	New Bridge
Hopkins No. 7311 Bridge and Approaches	0.6		100		New Bridge
Cortes Island, Misc. Section 4 Roads	10.0		100	98	Upgrade Old Roads
Bridge Site Plans Western Mines Road Thelwood, Henshaw, Ralph and Lupin	1.5		100	75	
Humpback Road, Highway 14 - Highway 1	5.0		50	5	Upgrade Old Road
Knight Road Extension (Lerwick Road - Anderton Road)	2.0		60		
West Shawnigan Lake Road, Elford & Edam Site Plans and Approaches	0.85		100	10	
Craigflower and Cooper Road I/S	0.50		100	30	
Old Cowichan Lake Road	0.8		100	100	
Crofton Access	6.4	100	100		
Courtenay Area, Lazo Road to Miracle Beach	27.0		100	100	
McKenzie Avenue, Highway 17 to Highway 1	2.4		100	100	Gone to Tender

Preliminary Study Section

Before design can be undertaken, studies of possible and feasible routes are usually made. These activities are shown on the above listing under the heading of Preliminary Studies April 1, 1982 and March 31, 1983. A necessary aid to the performance of these studies is aerial mapping at various scales obtained from aerial photographs. To this end sufficient low level photography was obtained to produce high order mapping on the following:

1. Deutsch Slide.
2. Horseshoe Bay - Brittania (horizontal).
3. Comer - Weldwood Access.
4. Sicamous - Revelstoke.
5. Merritt - Kamloops (Highway 5).
6. Canyon City - Greenville.

Low order mapping was obtained on the following:

1. Deutsch Slide.
2. Canyon City - Greenville (cross sections).

High order mapping was obtained on the following:

1. Richmond East/West Freeway.
2. Coldwater Indian Reserve Bypass.
3. Merritt Bypass.
4. Horseshoe Bay - Newman Creek.
5. "M" Creek - Porteau Cove.
6. Comer - Weldwood Access.

Metric Conversion

The Metric Coordinator continues to represent the Ministry at Provincial Government Metric Conversion Committee meetings and to monitor the conversion of the Ministry to the metric system.

There was a flurry of activity this past year when Premier Buchanan of Nova Scotia announced that his Province was going back to dual signing (metric and imperial) and may even drop the metric altogether. In a press release the Minister announced that he was interested in the move and would consider doing the same in our Province. Response from the public showed that the drivers of British Columbia were three to one in favour of remaining totally metric. However, there were approximately 73 dual signs erected throughout the Province at all border crossings and major airports for the benefit of the American tourists.

The "km" tabs on distance signs are being discontinued as signs are repaired or replaced. The regulatory signs (speed limit) will continue to contain the metric message although it will be incorporated on the primary signs and not in tab form.

Sound Control

The Sound Control Studies Engineer (SCSE) has been involved in a wide variety of projects in which sound and/or vibration from the construction or operation of Ministry facilities has been or is expected to be a problem. The receivers of the sound or vibration may be residents near a highway or Ministry employees who operate heavy equipment and ferries.

The Annacis Island Crossing and its connecting highways continue to occupy much of the SCSE's time. Highway noise impact studies were conducted for the Richmond East/West Freeway Alignment between the proposed Hamilton Interchange and Highway 99 and for the Annacis Loop Road which will serve as the truck route to Annacis Island. A field survey of ambient noise levels along the proposed connectors routes to the Annacis Highway in Delta will soon be under way. Three newly acquired environmental noise monitoring systems will be used for this study. The SCSE has been monitoring the noise levels produced by various construction activities at the Annacis Bridge site such as pier island building and pile driving and recommending noise abatement measures where appropriate.

Other recent projects have included a feasibility study for noise barrier construction along the Upper Levels Highway from Capilano Road to Lynn Creek and the acoustical design for a proposed truck inspection station in Kamloops.

The SCSE continues to support the Equipment Services Branch in their programs of noise and vibration control and vibration monitoring for preventive maintenance aboard the Ministry's ferry fleet.

Computer Operations

The Design and Surveys Branch continues to be one of the heavier computer users within the Ministry with highway design computer generated perspective and contour plots being widely used by consultants and Branch staff.

With increased digitising capability within the Branch, preliminary design staff are able to complete designs quickly and more efficiently. The Branch is currently working on supplying Branch Field Offices with electronic data collection and micro computers. This will greatly speed up and increase accuracy when collecting survey data. There will no longer be the need for large volumes of key punching.

Consultants

This past calendar year the Ministry has requested consulting firms to carry out the survey and/or design work on the following projects, many of which are still under way.

1. Annacis Highway — 20 km of new route for four and six laning.
2. Mission Roadworks — 1.6 km Hurd Road to Mission.
3. Highway No. 7, Silverdale to Hurd Road — 6 km of four laning.
4. Highway No. 1, Capilano to Lynn Valley — 4.0 km freeway design.
5. Haney - Silverdale — 18.5 km four laning.
6. Stanley Park Causeway — 1.6 km reconstruction and resurfacing of road through Stanley Park.
7. Kamloops Interchange, Highway No. 1 and No. 5 at Aberdeen — 3.0 km future interchange of two four-lane roads.
8. Vernon - 32nd Street Extension North — 3.0 km new four lane route.
9. Vernon - Highway No. 6 from 27th Street to 32nd Avenue — 0.8 km urban four lane.
10. Rossland Avenue - Stoney Creek — 2.4 km new four lane connection to creek in Trail (Trail - Highway No. 3A near Cominco Tadanac Relocation).
11. Kelowna — 5 km of four laning on Highway 33 and Rutland Road.
12. Fifth Avenue Interchange — Fifth Avenue Overpass of Highway No. 97 at Prince George plus a diamond interchange at Prince George.
13. Northeast Coal Access — 70.4 km new road to proposed coal development Martin Creek to Gwillim Lake.
14. Quesnel Bypass — 5 km of new highway to bypass Quesnel.
15. Highway No. 29 Relocation — 24 km replacement of highway to be between Hudson Hope and flooded by Site "C" Dam Charlie Lake.
16. Cassiar Street Study Multidiscipline Study of Cassiar Street.

Consultants are also doing the following Environmental and Socio-Economic Impact Studies:

1. Coldwater Indian Reserve (Coquihalla) Environmental Impact Study.
2. Campbell River Foreshore Road Study (Socio-Economic Environmental Engineering) (Completed).
3. Cassiar Street - Engineering Feasibility & Multidisciplinary Study.
4. Highway 16 Relocation - Environmental Impact Study between Khyex River and Tyee Overhead (Kellerhals).

The planning, design and construction of the Coquihalla Highway is progressing. The functional planning is completed for 60 km of the highway, and at various stages of completion for the remaining 52 km. Functional Planning Reports are being prepared to summarize and document the studies to the end of the functional planning stage.

Two of the 24 sections between Hope and Merritt have been constructed, the length totalling 9.1 km. A third contract of 93. km is completed and ready for call. Design is at various stages of completion for six additional contracts totalling 31 km.

Hydraulic Engineer

The scope of projects dealt with by the Hydraulic Engineer in the past year ranged from minor drainage in subdivisions to the hydraulic aspects of major river crossings. Projects dealt with during 1983 included:

1. The Greenville Bridge on the Nass River.
2. Tsolum River bank protection at Courtney.
3. Little Slocan River Bridge near Castlegar.
4. Fraser River Bridge at Boston Bar.
5. Culvert safety on the new Revelstoke to Mica Creek Road.

The Hydraulic Engineer has also been involved in discussions between the Ministry, Consultants and other Government Agencies regarding the Fraser River Crossing at Annacis Island, storm drainage on Annacis Island and Lougheed Highway drainage at Colony Farm.

In addition, expert advice on rainfall and runoff conditions has been provided to the Attorney-General's Department and assistance has been given to District Approving Officers regarding drainage proposals for subdivisions.

Environmental Section

During the past year the Annacis Crossing Project had five environmental studies in progress. The Stage II, detailed impact assessment from the Fraser River to Highway 99 was completed and printed for distribution. However, an addendum is in progress detailing a potential rail relocation of the Burlington Northern rail line between 64th Avenue and Highway 10.

The interim fisheries/hydrology study completed a full year of a detailed inventory and assessment of both upstream adult migrant salmon and the use of the area by the juvenile and fry populations. The interim report was submitted to the Federal Agencies and approval was granted for the construction of the pier protection works and approval-in-principle for the remaining in-stream works of the project. The outcome of this study is a detailed three year monitoring program in which hydraulic characteristics of the sand islands will be studied. The data collected will aid in the finalizing of detailed habitat creation designs within the sand islands and the crossing sites on the Annacis Channel.

The major archaeological project at St. Mungo Cannery was completed this year. The project was considered a large success both from the materials found and the numerous public and school visits that were carried out at the site. The site is still intact so that future archaeological development, following construction of the bridge project, may be feasible.

Additional impact surveys were carried out throughout the province. A minor salvage site was identified at Alexis Creek and work completed during the summer. Further impact studies were carried out on Highway 3 in Manning Park and on Highway 5 between Merritt and Kamloops.

The detailed land use and agricultural impact study for the Richmond East/West Freeway is in the final stages of completion. Approval has been received both from the Municipality of Richmond and the Agricultural Land Commission for this alignment. The North End of the Queensborough Bridge Socio-Community Impact is in its final draft stage. Upon printing of the report, copies will be distributed to local government and interest groups in the New Westminster area.

Work continues on completing a number of environmental impact assessments for the Coquihalla Highway project. The first Stage II document is in the final draft stage and additional reports will be prepared throughout this coming fiscal year. Numerous other environmental assessments were undertaken on highway projects in the design, construction and maintenance phases on a site by site basis. Many of the concerns over fisheries impacts were successfully resolved by mitigation measures.

Wildlife/vehicle collision concerns in the southeast portion of the province are still under study.

REPORT OF THE DIRECTOR OF GEOTECHNICAL AND MATERIALS ENGINEERING

J.W.G. Kerr, P.Eng.

During the past year, the Branch was involved in a record number of investigations (1,211). Design and investigation projects for the Fraser River Crossing at Annacis Island were a major commitment. Other major studies took place for; debris basins on creeks along Howe Sound, and, preparation of geotechnical designs for proposed Coquihalla contracts.

The branch continued to provide educational courses to district and regional staff on such subjects as road foundation construction, aggregate beneficiation, pavement design and soil testing. Papers were published in areas of expertise and in association with private consultants and federal scientific agencies.

Geotechnical Highway Design Investigations

Investigations for the Annacis Crossing project increased the workload in this area considerably. Subsurface evaluation of materials for arterial highway design, overpass construction and railway relocation and design were undertaken. Geometric and structural design work has been undertaken by private consulting engineers using data provided in a large part by the Branch.

Design work on the Coquihalla Project, contracts 7, 13, 14, 15 and 16 has nearly been completed as has soil survey work on the Penticton-Trout Creek realignment along Okanagan Lake. A major realignment project from Bear Lake-Kerry Lake (Highway 97) north of Prince George was completed using designs provided by Branch personnel. Design recommendations on this project included the use of lightweight fills, wick drains, granular surcharges, stabilizing berms and sub-excavation, with a number of problems being dealt with on-site during the day labour construction.

Foundation Investigation and Design

Forty-four spans for the north and south approaches to the Annacis Crossing bridge site were investigated and designs prepared. Soft soil conditions and the need to design against potential movements by seismic action (earthquakes) made for very detailed investigations. Lightweight fill alternatives were evaluated for this project and contracts were prepared for densification by "vibro-replacement". In addition, pile load tests were carried out in association with private consulting firms using the Branch's "pile driving analyzer" to provide design data.

Concrete columns to eliminate failure and reduce settlements was prepared to facilitate faster construction at Mission Overhead. Pile load tests were undertaken for the new Halston Bridge at Kamloops and densification by dynamic consolidation undertaken at Coquitlam River Bridge. A foundation investigation for increased capacity on Okanagan Lake Bridge was also carried out.

To avoid environmental damage, an increasing demand for high bearing capacity bridge piers using large diameter (1 m or larger) piles or caissons has been made. A contract for driving and load testing a 0.9 m diameter pipe pile to a depth of 90 m at Annacis Channel has already been awarded and piles up to 1.5 m in diameter are being considered for this site in order to resist lateral movements resulting from earthquakes or impacts from ships.

Stability Investigations

Major slope failures occurred on Highways 1, 33, 97A and 99 in the past year. Debris torrents closed Highways 1 and 99 during the year. As a result, investigations for debris basins to mitigate such hazards were undertaken and designs are nearly complete for four creeks along Highway 99.

A large magnitude landslide of approximately 5 000 000 cubic metres took place below Highway 33 near Kelowna (Tamarack Park Slide) affecting the long term stability of the highway. Monitoring of movement on the large Attachie Slide block adjacent to Highway 19 was also undertaken this year and will continue in future. Ten metre high splash dikes as well as other alternatives were investigated to protect the highway and its users, should this slide fail.

Instability along Highway 97A by Mara Lake was a man made remobilization of a previously recognized rock slide. Continuous small scale failures since the 1978 reconstruction and realignment resulted in having to design remedial works for the site this year. The results are being monitored and the design used, may be applied in future to the full length of similarly affected highway. Sizeable slides that developed during construction of the Tumbler Ridge access from Chetwynd (Highway 29) have also been stabilized or are being monitored for future design purposes.

Creep type failures of bridge approaches were also investigated at Pavilion, Nechako Bridge (west of Vanderhoof) and at the Pitt River Bridge.

Aggregate Investigations

Problems with obtaining construction aggregates resulted in the investigation of 460 gravel pits and quarries this year. Access and haul problems were major obstacles, particularly in the Nelson and Prince George regions. Quality of accessible aggregates has also become a problem which is being overcome through beneficiation and open-graded base designs.

Branch staff implemented an "Aggregate Resource Information Planning Base" in the Kamloops region and updated the "Aggregate Production Manual". An aggregate investigation of the Skeena River bottom between Tyee and Ayton Island was initiated to find suitable fill and construction materials for the Khyex to Tyee construction project on Highway 16. Large scale studies were completed in the West Pine and Vanderhoof Districts as well.

Computergraphics are being developed to provide a cheap and simple technique to formulate a pit development and reclamation plan. This is an application of Design and Surveys Branch computerized "Metric Design System" providing perspective plots in a three-dimensional mode. A more comprehensive and accurate system using airphotos is also being pursued in conjunction with Simon Fraser University.

Pavement Evaluation

Seasonal strength loss studies continued and in the Nelson Region, thermistor installations (measuring thaw rates in road grades) led to a marked increase in efficiency in determining changing load bearing capacities. A design using highly permeable, open-graded base gravels to minimize traffic induced hydro-dynamic stresses during the spring thaw was developed for use along a section of Highway 16. The reconstruction using the open-graded base was successful in allowing the escape of trapped water. (Cost of this method is comparable to other alternatives.)

Quality Control and Materials Testing

Evaluating and testing of materials used in Ministry operations continued in the seven Branch laboratories. Laboratory tests completed were at all time highs, notably due to testing on the Annacis Channel project for soils, lightweight fill materials and geotextiles. Testing of various geotextiles for soil foundation reinforcement was completed and a manual for using such materials was produced and distributed throughout the Ministry.

Geotechnical Operations

Drilling Operations

This group completed 6 060 metres of diamond drilling (10% greater than last year) and soil sampling and, installed a further 6 450 metres of horizontal drains. A computerized electric cone was also obtained to provide an increased soil testing capability. Major projects included the Annacis Channel Crossing and investigation of debris basins along Howe Sound.

Geophysical Section

Conversion to digital recording and computer processing of seismic data was completed. Utilizing the computerized information with software developed in-house and by consultants, both accuracy and productivity of seismic investigations were increased. There was an increase of 16% in lines run and 39% in kilometres investigated. Electromagnetic conductivity surveys for aggregate prospecting purposes also increased by 46% over last year with 340 km of line run.

Rockwork Section

Scaling crews continued to work throughout the province. "Rockslope Assessment Inventories" were completed for all slopes in Region 3 and in the Saanich and Port Alberni Highway Districts. Special projects included performing a slusher operation on the Deeks Lake Dam (above Highway 99) for the Ministry of Environment; rockslope stabilization on two slide areas in the Alexandra Tunnel area (Highway 1); and, a rock bolting program along the Kalum Lake Road in the Terrace Region.

Special Projects

Several special study and test programs, were undertaken this year to develop methods of highway construction which will lead to prolonged wear-life and reduced maintenance. These included:

1. Preparation of designs and a safety manual for using sulphur-extended asphalt (S.E.A.). British Columbia uses greater volumes of this material than any other province in Canada.
2. Ligno-sulfanates for use as a frost heave inhibitor is being studied notably as it is a by-product of the pulp and paper industry and is available at reasonable costs.
3. Examination of permeability and stability of dense, intermediate and open-graded aggregate in order to propose new and improved base course specifications.

Geotechnical Highway Design Investigations

Name of Project	Location	Type of Investigation
Gilley Route	New Westminster Hwy	soil survey and foundation design
Marine Way	Burnaby	soil survey and foundation design
Westminster Stockpiles	New Westminster	dredging design and evaluation
Hwy 99 to 64th Avenue	Annacis Crossing	soil survey and foundation design
B.N.R. Relocation	Annacis Crossing	soil survey and geometric design for R.R.
64th Avenue to Nordel	Annacis Crossing	soil survey and foundation design
Queensborough to Hamilton	Annacis Crossing	soil survey and foundation design
Nordel Interchange	Annacis Crossing	subsurface investigation and fill design
Cliveden Interchange	Annacis Crossing	subsurface investigation and fill design
64th Avenue Overpass	Annacis Crossing	subsurface investigation and fill design
East Bridge Approach	Annacis Crossing	subsurface investigation and fill design
West Bridge Approach	Annacis Crossing	subsurface investigation and fill design
Main Span - Annacis	Annacis Crossing	subsurface investigation and pile design
Sand Islands - Annacis	Annacis Crossing	subsurface investigation
Boundary Road Overpass	Annacis Crossing	subsurface investigation and fill design
Contract 7	Coquihalla	soil survey and foundation design
Contract 15	Coquihalla	soil survey and foundation design
Contract 16	Coquihalla	soil survey and foundation design
Penticton to Trout Creek	Okanagan Lake	soil survey
Inoncaklin to Deep Creek	Region 3	soil survey
Fernie Ski Hill	Region 3	soil survey
Bear Lake to Kerry Lake	Highway 97	foundation design - wickdrain installation
Kalum Lake Road	Region 5	soil and bedrock survey
Burns Lake Br. to Yellowhead	Highway 16	soil survey and foundation design
Carnaby to Kitsequecha	Highway 16	relocation - foundation design
Cranberry to Derrick Creek	Region 5	geotechnical design
Aiyansh to Greenville	Greenville Access	soil survey and foundation design
Dease Lake to Sawmill Pt.	Highway 37	preliminary design - relocation
Salmon River Road	Region 5	soil survey and foundation design
Parksville to Qualicum	Highway 19	soil survey and foundation design
Black Creek to Dingwall Road	Highway 19	soil survey and foundation design
Humpback Road to Section 10	Highway 14	soil and seismic survey and design
Dewdney Flats	Highway 14	muskeg investigation
Durrance Lake Road	Region 6	soil survey - relocation
Horseshoe Bay - Squamish	Highway 99	rock cut design
Stikine River Hill	Highway 37	terrain evaluation - relocation
Pine Pass	Highway 97	foundation investigation - pavement
Barkerville Turnoff	North of Quesnel	foundation investigation - pavement
Queensborough Bridge	New Westminster	condition survey - repaving
Pattullo Bridge	Surrey	condition survey - repaving
Contract 13	Coquihalla	foundation design
Contract 14	Coquihalla	foundation design
Contract 15	Coquihalla	foundation design
30 Mile Re-alignment	Highway 16	geotechnical design

Miscellaneous Projects - 9
Total No. of Projects - 53

Kilometres Investigated - 58
Total km Investigated - 440

Foundation Investigation Design

Name of Project	Location	Type of Investigation
Alberta Creek Bridge	Highway 99	foundation investigation and design
Montizambert Creek Bridge	Highway 99	foundation investigation and design
Magnesia Creek Bridge	Highway 99	foundation investigation and design
Harvey Creek-Debris Basin	Highway 99	foundation investigation
Alberta Creek-Debris Basin	Highway 99	foundation investigation
Halston Bridge	Kamloops	foundation investigation and design
Columbia River Bridge	Region 3	foundation investigation
Goat Creek Bridge	Region 3	foundation investigation
Lower Six Mile Bridge	Region 3	foundation investigation
Old Ymir Road Bridge	Region 3	foundation investigation
Rossland Hill Run-out	Warfield	foundation investigation
Little Slocan River Bridge	Region 3	foundation investigation
Deltaic Creek Bridge	Prince Rupert Dist.	foundation investigation
Taft Creek Bridge	Prince Rupert Dist.	foundation investigation
Alger Creek Bridge	Dease Lake Dist.	foundation investigation
Snowbank Creek Bridge	Dease Lake Dist.	foundation investigation
Beaverpond Creek Bridge	Dease Lake Dist.	foundation investigation
Cousins Creek	Highway 37	geotechnical design - culvert
Chicken Creek	Highway 16	geotechnical design - culvert
Ashburnham Bridge	Region 6	foundation investigation and fill design
Port Albion Bridge	Region 6	foundation investigation
River Road	Region 6	foundation investigation
Parklane Peat	Highway 4	foundation investigation
Marble River Bridge	Region 6	foundation investigation
Swan Creek Bridge	Region 6	instrumentation installation
Interurban Overpass	Victoria	instrumentation installation
Annacis - North Approach	Annacis Crossing	foundation investigation and design
Annacis - South Approach	Annacis Crossing	foundation investigation and design
Maryhill Overpass	Cape Horn	foundation investigation and design
Peers Creek Bridge	Coquihalla	foundation investigation and design
Okanagan Bridge	Kelowna	foundation investigation
Duffy Lake Road Bridge	Region 2	3 foundation investigations
Pat Boulevard	Region 4	foundation investigation and design
Fort Nelson River Bridge	Fort Nelson	foundation investigation and design
Prince George Overhead	Prince George	foundation investigation and design
Mission Overhead	Mission	concrete column impact investigation
Coquitlam River Bridge	Coquitlam	densification by dynamic consolidation
Wathl Creek Bridge	Region 5	foundation investigation
Greenville Bridge	Greenville Access	pile-driving analysis
Enderby Bridge	Enderby	pile-driving analysis
Seymour River	Region 1	pile-driving analysis
Inver Creek	Region 5	pile-driving analysis

Miscellaneous Projects - 74
Total No. of Projects - 117

Stability Investigation

Name of Project	Location	Type of Investigation
Pavillion Bridge	Region 2	bridge abutment moving
Nechako River Bridge	Vanderhoof	pier and abutment moving
Pit River Bridge	Coquitlam	foundation instability
Vavenby Slide	Vavenby	slope instability
Winlaw Slide	Region 3	slope instability - stabilization design
Burton Slides (A and B)	Region 3	slope instability - stabilization design
Creston Slide	Region 3	slope instability
Hamshaw Slide	Region 3	slope instability
Mica Creek Slide	Region 3	slope instability
Argenta Slide	Region 3	slope instability
Tamarack Park Slide	Highway 33	slope instability
Main Street	Lillooet	fill slope instability
Mara Lake	Highway 97A	slope reconstruction and design
Tumbler Ridge Access	Highway 29	slope and fill instability
Maroon Creek Access	Terrace District	slope instability
Francois Lake Ferry	Burns Lake Dist.	fill slope instability
Francois Lake	Burns Lake Dist.	slope instability
Hospital Road	Burns Lake Dist.	slope instability
Hazelton to Kitwanga	Smithers Dist.	slope instability
Hazelton High Road	Smithers Dist.	slope instability
Steamboat Point	Smithers Dist.	slope instability
Cranberry 1 to Derrick Ck.	Region 4	stability monitoring
Muir Creek	Region 6	slope instability
Attachie Slide	Fort St. John Dist.	stability monitoring
Howe Sound-Debris	Highway 99	torrent reconnaissance surveys
Wahleach-Debris	Highway 1	torrent reconnaissance surveys
Revelstoke-Mica	Highway 23	debris torrents
Seven Mile Dam Road	Region 3	slope instability
Knockholt Siding	Houston	stability monitoring

Miscellaneous Projects - 71
Total No. of Projects - 102

Aggregate Investigations

Investigation Group	Gravel Pits	Quarries	Area Studies	Total Projects
Region 1	87	-	3	90
Region 2	69	-	-	69
Region 3	28	-	3	31
Region 4	169	15	-	184
Region 5	61	1	-	62
Region 6	19	-	1	20
Terrain Eval.-Hdqts.	-	-	4	4
TOTALS	433	16	11	460

Pavement Evaluation

Investigation Group	No. of Designs	Distance (km)	Control Sections	Tests/ Year
Region 1	19	128	32	6
Region 2	10	72	30	8
Region 3	17	103	53	5
Region 4	14	227	33	13
Region 5	9	220	59	7
Region 6	7	58	32	8
TOTALS	76	608	239	45

Quality Control and Materials Testing

Investigation Group	Concrete Inspections	Cylinders Tested	Timber (FBM) Inspected	Crushing Projects	Lab Tests
Region 1	174	1,200	898,341	5	16,142
Region 2	142	934	-	14	2,762
Region 3	115	705	-	2	-
Region 4	98	609	258,522	2	4,710
Region 5	23	951	64,800	-	2,795
Region 6	43	316	-	2	-
Hdqts. Lab*	-	337	-	-	3,486
TOTALS	595	5,052	1,221,663	25	29,895

* This lab was also involved in the testing of geotextiles, traffic cones, paints, thermoplastics, rubbers, resins and the repair of regional equipment.

Geotechnical Operations

Drilling Section:	Regions 1	2	3	4	5	6	Totals
No. of Projects	34	15	1	3	22	-	75
Diamond Holes (m)	3,848	970	50	145	1,047	-	6,060
Horizontal Drain Sites	-	-	3	1	-	1	5
Drains (m)	-	-	4,300	1,850	-	300	6,450
Cone Penetration Proj.	7	1	-	-	-	-	8
Depth (Cone Tests) (m)	3,150	200	-	-	-	-	3,350

Geophysical Section:	Regions 1	2	3	4	5	6	Totals
No. of Projects	17	11	2	19	23	1	73
No. of Seismic Surveys	5	4	-	1	-	1	11
Distance of Survey (km)	-	-	-	-	-	-	314
Electromag. Surveys	-	4	2	18	23	-	47
Distance of Survey (km)	-	-	-	-	-	-	340

Rockwork Section:	Regions 1	2	3	4	5	6	Totals
Scaling man-days	978	158	262	98	140	84	1,720
Rock removed (m^3	4,492	882	1,486	564	798	478	8,700
Drilling and Blast (m^3	2,120	20	160	500	400	-	3,200
Rock bolts (m)	415	-	-	-	40	-	455
Slope mesh (m^2)	3,400	-	-	-	-	-	3,400
Slopes monitored	6	2	1	-	-	-	9

REPORT OF THE DIRECTOR OF BRIDGE ENGINEERING

L.C. Johnson, P.Eng.

1983 was an extremely busy year for the Bridge Branch. Some $80,000,000 worth of work was tendered, which is about double the norm. Because of economic conditions, prices were low and there was keen competition in the construction industry for contracts.

The calling of tenders for the alternative designs for the main span of the Annacis Bridge culminated three years of intensive design by the two consortia. The two superb designs, that resulted from the many hours of investigation, discussion, design, and testing are believed to have established a new state of the art for cable stayed bridges.

At the end of September, as the result of a British Columbia Ferry Corporation change in policy, the Dock District ceased to design and supervise construction of installations for the Corporation. Dock District, however, continued to design and supervise construction of installations for Ministry ferries. In addition it became part of the Bridge Branch to assist in its design and construction program.

Reports of the divisions within the Branch follow.

BRIDGE DESIGN

NAME OF BRIDGE	DESIGN IN PROGRESS	DESIGN COMPLETED	TENDER CALLED
Annacis Complex			
Annacis Bridge Main Span			
Approach N15 - N20		X	X
Approach N3 - N15		X	X
Approach N20 - N23	X		
Approach S3 - S23	X		
Annacis Channel Movable Bridge	X		
Annacis Channel East Bridge	X		X
Highway 1			
Koksilah Underpass	X		
Gordon Creek	X		
Clanwilliam Overhead Repair		X	X
Highway 3			
2 Mile Creek Repair	X		
Highway 5			
6 Mile Pier Modification	X		
Highway 7			
Kanaka Creek			
Cape Horn Flyover		X	X
Cape Horn Overpass #2 Widening			X
Pitt River Pier Fendering		X	X
		X	X
Highway 8			
Curnow	X		
Rattlesnake Nicola River	X		
3 Mile	X		
Potatosillihee Bridge		X	(1)
Highway 11			
Old Yale Road Underpass		X	X
Highway 16			
Tyee Overhead		X	X
Patricia Boulevard Overhead		X	X
Highway 20			
Kleena Kleene Bridge		X	(1)

(1) By District Forces

NAME OF BRIDGE	DESIGN IN PROGRESS	DESIGN COMPLETED	TENDER CALLED
Highway 28			
Buttle Narrows Bridge		X	X
Highway 97			
Kelowna Bridge Widening		X	
Penticton Parkway Underpass		X	X
Highway 99			
Montizamoert Creek		X	X
Charles Creek	X		
Newman Creek	X		
Harvey Creek	X		
Alberta Creek		X	X
Magnesia Creek	X		
Lyall Creek		X	
Region 1 - Miscellaneous			
Pattullo Bridge Repair		X	X
Weaver Creek		X	(1)
Boston Bar Bridge		X	X
Sallahlus Bridge		X	
McConnell (Cascade) Creek	X		
Carratt Creek	X		
Coquitlam River		X	
Mary Hill Bypass Overhead		X	
Region 2 - Miscellaneous			
Kamloops Junction Overhead		X	X
Kootenay Road Underpass		X	X
Pritchard Bridge	X		
Region 3 - Miscellaneous			
Little Slocan River		X	
St. Cyr Creek	X		
Region 4 - Miscellaneous			
Fort Nelson River		X	X
Clayhurst Bridge		X	
Region 5 - Miscellaneous			
Burns Lake Overhead		X	X
Walcott Foot Bridge		X	X
Region 6 - Miscellaneous			
Kirby Creek		X	X
Marble River	X		

(1) By District Forces

BRIDGE CONSTRUCTION

In the 1983/84 fiscal year, 31 new vehicular bridges were completed. In addition, one railway underpass, one pipeline underpass and two pedestrian overpasses were built, two bridges were widened, a sidewalk was added to one bridge, a test pile program was completed, and the first stage of retrofitting of Pattullo Bridge was completed. On March 31, 1984, 25 bridges were under construction, major repairs to Okanagan Lake Bridge and minor repairs to Second Narrows Bridge were continuing, another test pile program had been started, and tenders had been received for the building of five other bridges.

Six bridges on the Northeast Development Road, south from Chetwynd were finished to complete the bridge construction on this highway.

Four bridges were built in the Bear River Valley northeast of Stewart to upgrade this portion of Highway 37.

Work on the Greenville Bridge was delayed when river-bottom scour during high water in June led to a loss of seal in the cofferdam at Pier 1. It took several weeks of intensive work to remedy this problem, and the bridge substructure was completed in December. The steel superstructure has been assembled in five large pieces (up to about 200 tons) in the fabricator's yard. Steelwork will be barged to the site in the spring and erected with a floating crane.

Work on Kamloops Bridge, over the North Thompson River, has progressed quickly. All 90 prestressed concrete stringers and th concrete stay-in-place deck panels were erected by the end of March.

A good start has been made on a difficult site on Boston Bar Bridge. The east pier is secured to the bedrock by forty rock anchors. The centre and west piers are each made up of five 1.5 metre diameter concrete-filled pipe piles drilled through the overburden into bedrock. Most of the steelwork for this bridge is being salvaged from bridges on the old Mica Access Road.

The contractor won his race against the coming of spring at Fort Nelson River Bridge, substantially completing the substructure before the end of March. The four river piers each consist of six 106 cm diameter steel pipe piles driven through holes drilled in the ice.

On March 1, 1984, a contract was awarded for the construction of Annacis Bridge Main Span. This is the first structure to be started in the Annacis Island Crossing project, a major new access route across the Fraser River.

A good safety record has been maintained, with very few lost-time injuries.

BRIDGES COMPLETED 1983/84

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2664	Colony Farm Bridge	Cape Horn to Pitt River Highway	Coquitlam-Moody	A prestressed concrete stringer bridge 110 m long, 18.3 m wide with a reinforced concrete deck and twin ramps consisting of: six spans totalling 203 m of curved, precast, post-tensioned concrete box girders; 10 spans totalling 270 m of prestressed trapezoidal concrete girders, 26 spans totalling 368 of reinforced concrete piers and abutments founded on steel pilings.
2764	Foothills Boulevard Bridge	Foothills Boulevard	Prince George, North and South	A four span, 157 m long bridge supported on 2 reinforced concrete abutments on spread footings and three large diameter pipe pile bents with a 24 m wide reinforced concrete roadway.
1430	Mars Creek Bridge	Revelstoke-Mica Highway 23	Shuswap-Revelstoke	A 174 m bridge consisting of seven structural steel spans of different lengths. Six of the spans, including a 61 m truss, will be salvaged from the existing Holdich Creek and re-used. A new 45 m span has been added. The structure is supported on reinforced concrete piers and abutments with spread footings. The roadway width is 8.5 m.
2268	Twidwell Bend Bridge	Northeast Development Road	South Peace River	A four equal span steel plate girder bridge 158.5 m long with piers and abutments on steel H-piling.
2781	Wolverine River Bridge	Northeast Development Road	South Peace River	A four span, 132 m long precast concrete stringer bridge on reinforced concrete substructure with an 11 m wide reinforced concrete deck.
2783	Flatbed Creek Bridge	Northeast Development Road	South Peace River	A three span, 93 m long precast concrete stringer bridge on a reinforced concrete substructure with the abutments on spread footings, the piers on pilings, and a 11 m wide reinforced concrete deck.
2782	Murray River Bridge	Northeast Development Road	South Peace River	A three span, 110 m long steel girder bridge on reinforced concrete abutments, extended steel pile piers, and with an 11 m wide reinforced concrete deck.
2787	Bullmoose Flats Bridge	Northeast Development Road	South Peace River	A three span, 72 m long, precast concrete stringer bridge on a pile founded reinforced concrete substructure with an 11 m wide reinforced concrete deck.

BRIDGES COMPLETED 1983/84 - Continued

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2780	Bullmoose Creek Bridge	Northeast Development Road	South Peace River	A four span, 113 m long, precast concrete stringer bridge on a pile founded reinforced concrete substructure with an 11 m wide reinforced concrete deck.
1453	"M" Creek Bridge	Garibaldi Highway 99	West Vancouver Howe Sound	A single span, 41.4 m long steel stringer bridge on a reinforced concrete substructure with one abutment footing founded on rock and the other partially on rock and partially on H-piling, and with a 11.6 m wide reinforced concrete deck.
2789	Culliton Creek Bridge	Garibaldi Highway 99	West Vancouver-Howe Sound	Reconstruct and pave a 1 km bridge approach, remove existing metal culverts, rechannel Culliton Creek and construct a 76 m single span steel arch bridge with a 12 m roadway all founded on a reinforced concrete substructure.

BRIDGES CONSTRUCTED 1983/84

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2587	Cottonwood River	Cassiar Highway 37	Atlin	A three span continuous steel girder bridge 222 ft. long with a 36 ft. wide reinforced concrete deck all supported on reinforced concrete abutments and extended steel pipe pile piers.
12150	Surprise Creek	Stewart Highway 37A	Atlin	A three span, 235 ft. bridge with precast concrete stringer with a 35 ft. wide reinforced concrete deck on extended steel pipe pile piers and reinforced concrete abutments.
7623	Cullen Creek	Stewart-Meziadin 37A	Atlin	An 18.5 m single span box girder bridge on reinforced concrete abutments with a 10.8 m wide reinforced concrete overlay deck.
7620	Bear River No. 2	Stewart-Meziadin 37A	Atlin	A 42.5 m single span steel girder bridge with a 10.8 m wide reinforced concrete deck on steel pipe pile founded reinforced concrete abutments.
0554	Bitter Creek	Stewart-Meziadin 37A	Atlin	A 166 ft. three span precast concrete stringer bridge with a 35 ft. wide reinforced concrete deck all supported on two extended steel pipe pile piers and two reinforced concrete abutments.
2737	Koksilah Pedestrian Overpass	Trans Canada Highway	Cowichan-Malahat	A reinforced concrete substructure of six piers and two ramp abutments supporting prestressed concrete walkway spans totalling 509 ft. and two cast-in-place walkway sections of 20 ft. each.
2766	Otway Road Underpass	Foothills Boulevard	Prince George	A 58.7 m, three span precast concrete girder bridge on a reinforced concrete substructure with a 11.7 m wide reinforced concrete deck.
6250	Lemieux Creek	Little Fort-Cariboo	Kamloops	Two extended pipe pile piers and two reinforced concrete abutments supporting a three span 180 ft. long precast concrete superstructure with a 33 ft. wide reinforced concrete roadway.

BRIDGES CONSTRUCTED 1983/84 - Continued

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
0210	Michel Prairie Bridge	Elk Valley Road	Kootenay	A four span, 121 m long precast concrete stringer bridge on a reinforced concrete substructure, and with a 14 m wide reinforced concrete deck, including two 1.6 m sidewalk.
2752	Elkford Spur Overhead	Elk Valley Road	Kootenay	A three span, 63 m long precast concrete box stringer bridge on reinforced concrete abutments and steel pipe pile bents and with a 14 m wide reinforced concrete deck including two 1.6 m sidewalks.
2750	Sparwood Overhead	Elk Valley Road	Kootenay	A four span, 74 m long precast concrete box stringer bridge on a reinforced concrete substructure with the abutments on spread footings and the piers on extended steel piling, and with a 14 m wide deck which includes two 1.6 m sidewalks.
2751	Michel Creek Bridge	Elk Valley Road	Kootenay	A four span, 70 m long precast concrete box stringer bridge on a reinforced concrete substructure with the abutments on spread footings and the piers on extended steel piling, and with a 14 m wide reinforced concrete deck which includes two 1.6 m sidewalks.
2282	Seymour River	Mount Seymour Parkway	North Vancouver-Seymour	A steel pipe pile supported reinforced concrete sub-structure with a three span prestressed concrete superstructure and a reinforced concrete deck 21.3 m wide consisting of a 17.2 m wide roadway and a 2 m sidewalk on each side.
1324	Mission Creek Bridge	K.L.O. Road	Kootenay	Remove curb and fence and supply and install new sidewalk on downstream side of the existing 43 m bridge.
2727	Mission Creek	Glenmore Street Extension	Okanagan South	A reinforced concrete substructure of 2 abutments and 2 piers founded on steel pipe piling supporting a 3 span concrete box stringer 150 ft. long with a 26 ft. roadway and 26.5 ft. sidewalk.
2589	Swift Creek	Valemount Secondary Road	Prince George	Two reinforced concrete abutments supporting a 100 ft. long precast concrete span with a 26 ft. wide reinforced concrete deck with a 4 ft. sidewalk.

BRIDGES CONSTRUCTED 1983/84 - Continued

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2673	CPR Trail Pipeline Underpass	Trail-Tadanac Highway 22	Rossland-Trail	Two reinforced concrete abutments supporting a 3.3 m diameter by 45 m long steel pipe to carry Cominco utility ducts.
2672	CPR Trail Underpass	Trail-Tadanac Highway 22	Rossland-Trail	A reinforced concrete substructure supporting 3 spans of precast concrete stringers totalling 57 m in length with a 6 m wide reinforced concrete track ballast trough with one sidewalk.
2747	Carey Road Pedestrian Overpass	McKenzie Avenue Extension	Saanich & the Islands	A reinforced concrete substructure of 4 piers and two curved abutments supporting 3 spans of prestressed concrete girders 66 ft., 87 ft. and 43 ft. long and 2 cast-in-place reinforced helical concrete spans each 42 ft. long.
0857	Downie Creek Bridge	Revelstoke-Mica Highway 23	Shuswap-Revelstoke	A four span, 98 m long steel girder bridge on a reinforced concrete substructure with a 9.5 m wide reinforced concrete deck.
2693	Kitwancool	Kitwancool Access Road	Skeena	A reinforced concrete substructure of two abutments supporting a prestressed concrete span 82 ft. long and 33 ft. wide concrete deck with a 24 ft. roadway and a 6.5 ft. sidewalk.
2240	Antigonish	Yellowhead Highway 16	Skeena	A 125 ft. four span concrete box girder bridge supported on steel pipe piles capped with reinforced concrete.
2239	Marigonish	Yellowhead Highway 16	Skeena	A 94 ft. three span concrete box girder bridge supported on steel pipe piles capped with reinforced concrete.
2242	Aberdeen	Yellowhead Highway 16	Skeena	A 94 ft. three span concrete box girder bridge supported on steel pipe piles capped with reinforced concrete.
2241	Inver	Yellowhead Highway 16	Skeena	A 94 ft. three span concrete box girder bridge supported on steel pipe piles capped with reinforced concrete.

BRIDGES CONSTRUCTED 1983/84 - Continued

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2238	Ekumsekum	Yellowhead Highway 16	Skeena	A 125 ft. four span concrete box girder bridge supported on steel pipe piles capped with reinforced concrete.
7844	Upper Nineteen Mile Bridge	Valley Drive	West Vancouver-Howe Sound	A reinforced concrete substructure of two pipe piles founded abutments with a 24 m single span prestressed concrete stringer superstructure with a 9.8 m wide reinforced concrete deck.
0597	Cheakamus River	Squamish Valley Road	West Vancouver-Howe Sound	A steel pipe pile founded substructure of two reinforced concrete abutments supporting a single steel girder span 47.2 m long with a 10.7 m wide reinforced concrete deck.

BRIDGE IMPROVEMENTS - COMPLETED 1983/84

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1190	Baker Creek Bridge	Marsh Drive	Cariboo	Improvements to widen from 9.1 m to 18.3 m on existing two span 80 ft. long steel girder bridge on a pile founded reinforced concrete substructure.
1551	Clearbrook Wall	Trans Canada Highway	Chilliwack	An 11 ft. high by 70 ft. long gravity wall of reinforced concrete placed to directly support a portion of the north abutment and retain the north approach fill of the Clearbrook Overpass.
0933	Pattullo Bridge	King George Highway	New Westminster-Surrey	Retrofitting to repair existing concrete girders and to replace existing bearings under the girders.
0361	Hosmer Bridge	Highway 3	Kootenay	Improvement consists of a steel supported, timber decked sidewalk attached outside the existing 350 ft. long steel trusses.
1516	Fern Street Wall	Fern Street-Mount Seymour Parkway	North Vancouver-Seymour	A 41 m long by 3 m high reinforced concrete wall anchored by steel H-pile founded counter foots, which supports the bridge end fill at the west abutment.
1458	Okanagan Lake Bridge	Okanagan Highway 97	Okanagan South	Supply and replace concrete anchors, and anchor cables.
1076	Texas Creek	Trans Canada Highway	Yale-Lillooet	A 13.7 m single span precast concrete box stringer bridge widened from 12 m to 20.8 m.

BRIDGES UNDER CONSTRUCTION 1983/84

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2735	Greenville Bridge	Greenville Access Road	Atlin	A three span, 240 m long steel plate girder bridge on a pile supported reinforced concrete substructure with a 9.3 m wide reinforced concrete deck.
2740	Penticton Parkway C.P.R. Underpass	Penticton Parkway Highway 97	Boundary-Similkameen	A 23 m single span steel girder bridge founded on timber pile supported reinforced concrete abutments.
2739	North Star Overpass	Cariboo Highway	Cariboo	Two reinforced concrete abutments supporting a 26 m precast concrete span with a 22 m wide reinforced concrete deck.
2818	Old Yale Road Underpass	Highway 11	Central Fraser Valley	A reinforced concrete substructure of two piers and two abutments supporting a 3 span 62.5 m long steel stringer superstructure with a reinforced concrete deck consisting of a 14.4 m roadway and two 2 m sidewalks.
2730	Gibsons Road Underpass	Trans Canada Highway	Chilliwack	A 37.2 m long precast concrete stringer span two reinforced concrete abutments and reinforced concrete deck 9 m wide with a 2 m sidewalk. The contract includes approach and drainage work.
1332	Koksilah River	Trans Canada Highway	Cowichan-Malahat	A reinforced concrete substructure of two pipe pile founded piers and two abutments supporting 2 spans of 48 ft. and one 90 ft. span of prestressed concrete box stringers and a concrete overlay deck 82 ft. wide with a roadway of 74 ft. and a 6 ft. sidewalk.
2753	Annacis Bridge	Annacis Highway	Delta and New Westminster	A 930 m long cable-stayed bridge with a 465 m main span, consisting of a 30 m wide precast concrete deck on steel floorbeams and plate girders.
1473	Kanaka Creek	Lougheed Highway	Dewdney	Replacement of a 2 lane, 110 ft. long timber trestle with a steel pile supported reinforced concreted substructure, 3 - 95 ft. precast concrete box stringer spans with a concrete deck consisting of an 84 ft. wide roadway and 2 - 7 ft. sidewalks.

BRIDGES UNDER CONSTRUCTION 1983/84 - Continued

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1398	Slocan Park	Slocan Valley West Road	Nelson-Creston	Two extended steel pipe pile piers and two reinforced concrete abutments supporting a 52.6 m long steel truss relocated from Taghum and two 9.2 m long precast concrete box girder spans. The deck consists of a steel grid deck on the truss span and concrete overlay on the box spans. Deck width is 6 m.
0944	Creston-Porthill	Creston-Rykerts Highway	Nelson-Creston	Demolition of an existing timber Howe truss and construction of a pile founded reinforced concrete substructure with 4 spans of precast concrete stringer carrying a 75.3 m long by 12 m wide reinforced concrete deck including one sidewalk.
0780	Passmore Bridge	Slocan Valley West Road	Nelson-Creston	Two extended steel pipe pile piers and two reinforced concrete abutments carrying a 52.6 m steel truss span relocated from Taghum and two 9.2 m long precast concrete box girder spans. The deck consists of a steel grid deck on the truss span and concrete overlay on the box spans. Deck width is 6 m with a sidewalk outside the truss.
7321	Buttle Narrows	Highway 28	North Island	A reinforced concrete substructure of two pipe pile supported piers and two abutments supporting a three span prestressed concrete superstructure 97 m long and an 11 m wide reinforced concrete deck.
2815	Patricia Boulevard	Yellowhead Highway 16	Pr. George South	A three span 58 m long bridge consisting of steel H-pile founded reinforced concrete piers, reinforced concrete abutments supporting precast concrete stringers and a 15 m wide reinforced concrete deck.
2728	Interurban Overpass	McKenzie Avenue	Saanich and the Islands	A reinforced concrete substructure of two H-pile founded piers and abutments supporting 3 spans, 147 ft., 163 ft., and 100 ft. long of continuous steel girders and a reinforced concrete deck 65 ft. wide consisting of a 52 ft. roadway and 2 - 6.5 ft. sidewalks.
2734	Swan Creek	McKenzie Avenue Extension	Saanich and the Islands	Two reinforced earth approaches supporting reinforced concrete abutments and a 72 ft. prestressed concrete stringer span with a 77 ft. wide concrete deck consisting of 2 - 6 ft. sidewalks and a 65 ft. roadway.

BRIDGES UNDER CONSTRUCTION 1983/84 - Continued

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
0311	Enderby Bridge	Mable Lake Road	Shuswap-Revelstoke	Remove existing timber bridge, construct approaches, and a reinforced concrete substructure consisting of 4 pipe pile piers and two abutments supporting a 700 ft. continuous steel girder bridge with a reinforced concrete deck 28 ft. wide and two 6.75 ft. wide sidewalks.
2249	Kasiks Overhead	Yellowhead Highway 16	Skeena	A five span, 104.2 m long steel stringer bridge on a reinforced concrete substructure with the piers on piling, the abutments on spread footings, and with a 11.3 m wide reinforced concrete deck.

BRIDGE IMPROVEMENTS - UNDER CONSTRUCTION 1983/84

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1343	Eckhardt Avenue Bridge	Eckhardt Avenue	Boundary-Similkameen	A three span, 48.8 m long steel stringer bridge on a pile founded reinforced concrete substructure and a reinforced concrete deck being widened from 12.2 m to 24.1 m.
1628	Cape Horn C.P.R. #2	Lougheed Highway 7	Maillardville-Coquitlam	A 4 span 66.9 m long precast concrete stringer bridge with a reinforced concrete steel H-pile supported substructure widened from 12 to 20 m by extending the substructure and adding concrete overlain prestressed concrete box stringers.
0904	Walcott Footbridge	Walcott Road 153	Omineca	Replace timber towers of suspension footbridge with concrete footings and steel towers.
1158	Bonaparte River	Trans Canada Highway	Yale-Lillooet	Improvements and widening of a 72 ft. single span steel stringer and reinforced concrete bridge from 32 ft. to 73 ft. including two sidewalks.

DOCK DESIGN, CONSTRUCTION AND MAINTENANCE

DESIGN

The following ferry terminal design works have been completed or are in progress:

BRITISH COLUMBIA FERRY CORPORATION PROJECTS

T.F.M. 251 Vesuvius Ferry Terminal - General repairs to marine works and replacement of loading ramp after being damaged by a ferry. Design completed (construction supervised by B.C.F.C.).

MINISTRY OF TRANSPORTATION AND HIGHWAYS PROJECTS

Westview Ferry Terminal - Replacement of wingwalls and one dolphin. Design completed.

Little River Ferry Terminal - New turning dolphin. Design completed.

Nanaimo Ferry Terminal - Provision of new second berth plus enlarged holding compound. Design in progress.

CONSTRUCTION

The following ferry terminal works have been completed or are in progress:

BRITISH COLUMBIA FERRY CORPORATION PROJECTS

T.F.M. 143 Departure Bay Ferry Terminal - Construction of overhead section of new foot passenger walkways. Construction completed.

T.F.M. 225 Horseshoe Bay Ferry Terminal - Double level loading for all berths complete with transfer structure. Construction supervised until September 30, 1983.

MINISTRY OF TRANSPORTATION AND HIGHWAYS PROJECTS

Balfour and Kootenay Bay Ferry Terminals - New loading ramps at each terminal to accommodate full highway loading. Construction in progress.

Woodfibre and Darrell Bay Ferry Terminals - Repairs to wingwalls and floating leads. Construction completed.

W.O. 50489 Heriot Bay Ferry Terminal - New starboard side dolphin. Construction completed.

MAINTENANCE

In addition to the above operations, numerous maintenance operations were carried out at all Ministry of Transportation and Highways Ferry Terminals under this jurisdiction plus British Columbia Ferry Corporation Ferry Terminals until September 30, 1983.

BRIDGE CONSULTANT LIAISON

The alternative designs in steel and concrete for the Main Span of the Annacis Bridge were completed during the year. Tenders were called in November and a contract for $45,754,806 was subsequently awarded to the low bidder.

A contract for $4,289,600 was awarded for the construction of the Pier Protection Works and was nearing completion by the end of the year. This construction will provide the bridge contractor with a working platform on which to drive piles and construct the main bridge towers.

A pile driving and load test contract on Annacis Island was completed and provided essential data for th 90 m long, 1 m diameter foundation piles specified for the north tower.

The design of the Annacis Channel Movable Bridge was also completed and final design assignments were initiated for the Annacis Channel East Bridge and for modifications to the South Approaches to the existing Queensborough Bridge.

Conceptual layouts are available for most of the minor structures and consultants will be invited to submit design proposals early next year.

REGULATORY AGENCIES LIAISON

Although there were not any applications for approval of high pressure pipelines, the number of applications for new or relocated railway crossings, signalization of railway crossings, railway grade separations, and Navigable Waters Protection Act approvals remained about the same as in previous years.

Applications were made for five grade separations of these only one included a grant for part of the cost of the project. The requests for grants on two projects were withdrawn to expedite the start of construction and the requests on two others were not made because the federal share fund had been committed already. As the Urban Transportation Assistance Program ended on March 31, 1984, final claims were prepared for nine projects to use up the funds available.

Applications for approval of seven projects were made under the Navigable Waters Protection Act.

BRIDGE INSPECTION

To avoid a duplication of normal and computer reporting a new, more comprehensive inventory-inspection system for the computer is being designed with a scheduled completion date of November, 1984.

A complete detailed inventory of timber bridges was initiated to determine priorities for strengthening or replacement.

Detailed inspections and calculations were done on seven bridges to assist the Ministry of Attorney General's Civil Litigation Department.

A further 16 structures were examined in detail because of suspected structural weakness.

Districts were assisted through the provision of 12 bridge designs, documents for 4 paint contracts, and advice on repair of approximately 17 bridges.

Heavy flooding in July and December caused damage to 10 bridges that required detours and immediate repairs.

In preparation for taking over maintenance, Queensborough Bridge and Annacis Causeway structure were given a detailed inspection to determine future maintenance costs.

Advise was given to Weigh Scale Branch on proposed overloads, to utility companies on placement of utilities and Heritage Conservation on maintenance costs for a historic railway trestle.

REPORT OF THE DIRECTOR OF HIGHWAY PLANNING AND TRAFFIC

D.R. Parkes, P. Eng.

During 1983, the Highway Planning and Traffic Engineering Branches were combined thus giving a direct operational focus to the planning activity. Major progress was made on the Annacis System and contracts were awarded. The decision to privatize the British Columbia Systems Corporation produced accelerated activity as computer capability moved towards the user, with emphasis on networking and product standardization. Subdivision activity continued at a moderated pace, however, almost 5,000 building lots were created and approximately 230 km of highway were added to the public road system.

Highway Planning Section

a) Urban Street Network Planning

The primary function of this section is to develop comprehensive road transportation network plans, strategies and functional layouts in order to provide for short and long term solutions to transportation problems for metropolitan, urban, regional and rural areas. This work was continued from the previous year in 83 communities and during 1983, a further 19 were initiated. Technical agreement, and in most cases Municipal Council and Regional Board endorsements, has been achieved in 13 network studies.

The purpose of these studies is to identify the physical and land use limitations for transportation corridors prior to urban development and redevelopment so that feasible, effective and widely accepted corridors can be protected and acquired, and facilities built at minimum cost and with the least possible disruption to communities. Local jurisdictions are encouraged to adopt these network strategies as the transportation component of their official community plans and official settlement plans. The strategies are an important element in the assessment of applications from municipalities seeking Provincial cost sharing funds, under either the Revenue Sharing Act or the Secondary Highways Program. This planning work also provides guidance to the approving officers from both the Municipal and Provincial levels and gives a framework for decisions concerning zoning, subdivisions, access and the traffic impacts and internal layout of major land developments.

The balance of the work relates to the section's role as a technical resource on a wide range of transportation related planning matters through participation on inter-Branch, inter-Ministry and inter-Agency committees and task forces.

b) Highway Planning

During 1983, the Transportation Planning Section continued its review of the Provincial highway system. Twenty-eight studies ranging from the development of transportation management strategies to the evaluation of new Provincial transportation corridors, were initiated. These studies in conjunction with a functional classification system will act as a base for future program planning.

c) Investigation and Analysis

In 1983, the Investigation and Analysis Group, established in 1979, continued to collect, analyse and disseminate a wide variety of travel information to users within and outside the public sector. This information ranges from the site specific traffic patterns at intersections to Province wide travel patterns as determined in roadside origin/destination interview surveys. Continuing enhancements to the group's computer systems greatly improve the accuracy and speed of handling the input to, and results of analysis from, the group's large data base which contains data from 1965 to the present.

The group's data collection activities in 1983 included a summer program which returned to the 1981 level of staffing of a 21 person field crew. Several major surveys required support from office staff. The 1983 summer programs included:

1. License plate surveys which were conducted in 14 areas, requiring 266 person days, or 15% of the survey effort. These studies provide valuable information on travel routes and travel times in local areas without requiring any intervention in the normal flow of traffic. Six surveys were conducted in the Greater Vancouver Regional District including a major study of the traffic on the Trans Canada Highway between the Port Mann and Second Narrows Bridges. Other extensive surveys were performed between Horseshoe Bay and Squamish, in Penticton, Naramata, between Parksville and Qualicum, and between Courtenay and Campbell River.
2. Vehicle occupancy counts which monitor urban travel trends and the role of public transit were allocated 250 person days or 14% of the program. These surveys were done in Greater Victoria, Greater Vancouver, Chilliwack and Golden.
3. A total of 240 intersection counts were performed in Victoria, Vancouver, Maple Ridge, Williams Lake, Prince George, Terrace, Prince Rupert and other communities. These counts involved 359 person days (20% of the summer's work). These counts are used in calculations of intersection capacities which help in setting priorities for improvements such as traffic control and extra lanes.

4. A major roadside interview program was undertaken this year for the Highway Systems Section. Thirty-one locations across the Province were surveyed including, for the first time, urban locations at Langley, Pitt Meadows and Langford. Other first time locations of surveys included Route 18 to Lake Cowichan, Route 25 to Kitimat, and Route 26 to Barkerville. These surveys accounted for 491 person days or 28% of the count program. They permit forecasting of travel patterns in the event of changes to the inter City network, allow monitoring of the level of recreational or tourist travel and have provided average trip length frequencies in a preliminary highway classification study.
5. Classifications of vehicles by different body types was done at 10 sites requiring 71 person days (4%). The results are used in highway capacity and laning studies and provide input to the determination of new truck weigh scale locations.
6. Trip generation counts were completed on three waterslide locations in the Okanagan Valley. These studies investigate parking requirements for facilities near highways where congestion could affect traffic flows on the trunk route. These surveys required 24 person days or 1% of the summer crew effort. The remaining 162 person days were required for training, orientation and travel.

Two experimental surveys were investigated this year. In the summer, a saturation flow survey was conducted on the Trans Canada Highway in western Victoria. This survey involved the recording of queues and vehicle passage at signalized intersections which provided a better assessment of the signals timing. In the fall, office staff used video camera equipment to record the traffic patterns at the Keith Road interchange in North Vancouver. This method uses less manpower and allows the analysis of queuing and weaving traffic patterns in detail in the office.

Annacis System Section

The principal function of this section is to manage the Ministry, consultant, and contractor resources engaged in the planning, design and construction of the Annacis Island Bridge and highway system.

The design for the main bridge pier protection works was completed and all river authorities have granted approval for construction. The Ministry has awarded the contract and construction is underway with completion expected in May 1984.

All geotechnical investigations and design work for the steel and concrete alternatives for the main Fraser River structure have been completed. Construction tenders were advertised for both steel and concrete designs, in October 1983 with tender opening scheduled for January 18, 1984. The scope of work consists of complete construction of the foundations, piers, towers and superstructure. With a main span of 465 m this structure will be the world's longest cable stayed bridge. Tenders have been invited to submit bids on both a 36 month and a 30 month construction schedule.

Design work for the approach spans, both north and south of the Fraser River, is nearing completion. It is anticipated that tenders will be called for the construction of the approach spans by early spring 1984.

The main span and approach span structures will be constructed to initially operate with four traffic lanes with the capability to be easily expanded to either six traffic lanes or the addition of rail transit.

South of the Fraser River detailed highway design is nearing completion for the section north of 64th Avenue. The design work incorporates various mitigation and enhancement recommendations resulting from the environmental impact assessment. Virtually all the required right-of-way for this section has been obtained. A further 325,000 m^3 of Fraser River sand was dredged and stockpiled for future road construction. South of 64th Avenue, general agreement has been reached on highway alignment and railway relocation to achieve the most effective and economical arrangements. Detailed highway and rail design work is in progress and some right-of-way has been acquired.

Artifact salvage at the St. Mungo archaeological site has been completed. The Ministry has constructed, and continues to monitor, a test section of highway embankment in the Burn's Bog area to identify the optimum construction techniques for roadway fills through the difficult geotechnical conditions presented by the bog. A number of preliminary construction activities to prepare right-of-way for full construction have been carried out.

The Ministry continues to assist the Municipality of Delta in the evaluation of options for connections between the Annacis Highway and major municipal roads. The Ministry has carried out road design and acquired right-of-way for protection of recommended connections.

On Annacis Island, detailed highway and interchange design work has been completed. A major dredging contract provided 800,000 m^3 of Fraser River sand to stockpiles to meet all roadwork sand fill requirements on Annacis Island. Design work has been completed and construction initiated on a number of utility relocation projects. Preliminary structure design and geotechnical exploration work has been completed for the Annacis Channel low level structure.

North of the Fraser River, detailed design work is nearing completion for highways through the East Richmond and Queensborough areas. The majority of the right-of-way through these areas has been acquired. Tenders have been called for the construction of the Annacis Channel swing bridge.

In addition to design work for the ultimate development of the Annacis system, consisting of six traffic lanes on the Fraser River bridge, detailed design is being completed for an interim system. This interim system will consist of an initial four traffic lanes on the Fraser River bridge and will have high quality signalized intersections preceding the ultimate development of interchanges on the approach highways. Road construction work for the interim system will commence in 1984 and future upgrading to the ultimate system will occur as travel demands warrant.

Design work has been completed for the relocation of the Queensborough - B.C. Hydro Rail line from Ewen Avenue to a new alignment through industrial lands. Federal cost sharing has been obtained and the Ministry and City of New Westminster have agreed on cost sharing arrangements. Right-of-way acquisitions for the rail relocation have been completed and construction has commenced.

At the north end of the Queensborough Bridge design work is underway for the interim connection of Marine Way to the bridgehead. The majority of required right-of-way has been acquired and construction is expected to be underway in early 1984. A consultant study of community impacts for longer term road improvement options is nearing completion.

The land use - environmental study for the new east-west highway route through Richmond is nearing completion and agreement has been reached on the specific alignment for this route. Various mitigation and enhancement recommendations have been advanced for incorporation into the engineering design and construction of the route.

Municipal Programs Section

The Secondary Highway Program, the roads section of the Revenue Sharing Act Program and the Urban - Arterial Highway Program were continued. The Ministry approved the amounts of $1,556,109 for construction and $408,994 for maintenance works carried out on 320 km of secondary highways this year. Examination was undertaken and recommendations made to the Ministry of Municipal Affairs regarding approximately 137 applications received under the roads section of the Revenue Sharing Act resulting in grants totalling approximately $15,000,000 by the Ministry of Municipal Affairs for road related works on 66 of the applications. Negotiations were carried out with six municipalities regarding downtown revitalization projects and 20 municipalities concerning urban street renewal and bridge assistance under Section 32(3) of the Highway Act. Staff met with representatives of 29 municipalities during the annual U.B.C.M. conference. A large number of changes in classification were considered with the rescinding of 17 Arterial Highways and establishment of 27 new ones. Six Secondary Highways were rescinded and seven were established. Comments and recommendations concerning 17 proposed boundary extensions, restructures and new incorporations were forwarded to the Ministry of Municipal Affairs.

Computer Systems Section

Application of electronic technology to the enhancement of Ministry productivity continued in 1983/84, mostly continuations of established methods. Administration of word processing and related office systems was united with computer systems to allow better service to line managers by consideration of a wider range of alternatives. Work continued on defining the information requirements of the Ministry, and organizing systems to access the information resources in electronic form. By ensuring that key data bases exist in accessible form, and that Ministry staff have access to the best available tools to access them, the greatest benefit can be drawn from the rapidly evolving information technologies.

Projects approved and begun during the year with major potential benefits included a highway location system to allow all road related data to be tied together, as well as to the highway physical plant. After mathematical testing, an inexpensive pilot project using a personal computer and data, provided courtesy of the Saanich District Office, has shown promising results. It is planned in the coming year from the lessons learned in the pilot project to provide a full scale service to line managers and end users in the Ministry. It will take more than a year to get all the Ministry's road data into such a system, but large pay backs are expected along the way as each system begins to benefit from the new location system.

A second project of major significance approved and begun during the year will involve minor modifications to the existing highways computer network so that it will provide word processing and electronic mail services to headquarters and local offices. Considerable efficiencies are available in using electronic tools to prepare documents and data files, and then printing them out or sending them electronically to other offices. These services, slated for implementation in the 1984/85 fiscal year, will have substantial impact on the Ministry's ability to continue providing a high level of service while holding down expenditure.

These and other systems are being planning through the use of prototypes, low cost mini versions of the proposed system which are quickly put together on a personal computer; to assist in this activity, personal computers were made available to three Regions for prototyping projects during the year. Questions addressed to date include crew and equipment scheduling, local stock and inventory control, and personnel productivity and safety reporting.

The Geotechnical and Materials Engineering Branch increased its ability to assess difficult terrain and provide cost effective solutions with the addition of four more desk top computers. While a number of Regional Geotechnical facilities remain without computer support, substantial increases in the ability to analyse complex situations will result as funding permits each office to build on the progress made so far.

Considerable amounts of engineering data are collected in the field to support the Ministry's operations, and more and more the field equipment is capable of storing these data in electronic form. As a consequence, projects now under way are actively working to tie the field equipment directly to computers to eliminate costly and time consuming manual data transcription. This work, currently emphasizing the Geotechnical and Design and Surveys Branches, will, when combined with the Highways Data Network enhancement mentioned above, allow engineering data to be collected and rapidly moved to the best location for analysis. Analysis results can then be rapidly returned to the field to have an immediate benefit on operations.

The Ministry's continuing concern for the impact of weather upon its facility and operations has resulted in a pilot project on the Squamish Highway involving the latest electronic technology. Weather information is collected electronically at four locations above the highway and transmitted by a radio and communications satellite to the Ministry's control tower at the Deas Tunnel. A computer there stores and tabulates the weather data, issuing reports and providing weather data on demand to hazard technicians, this, combined with early work on the Highways data network, allows notice of changing weather conditions to be transmitted to Highways offices within minutes of their detection on the mountain top.

The section continued its active participation in a number of inter-Ministry committees related to information systems as well as providing computer related training and education to over 40 staff, involving some 32 different courses.

Further to the organizational studies done previously, the Ministry at the end of the year formed an Information Systems Branch, charged with the management of the Ministry's information resources and the technologies required to make the most effective use of them. It is anticipated that this new Branch, with a clear Ministry wide mandate, will be able to continue and extend the various services now provided to the line managers in the Highways Operations Department.

Highway Systems and Programs Section

Approximately 13,900 km of roads were photo-logged. The resulting film was used on 180 occasions by the executive and officials of various Branches as well as external agencies. The computerized inventory of route mileage and landmarks was discontinued.

Work proceeded on the analysis of operating characteristics of sections of highway in the Vancouver Island region. Operating speeds and travel delays for the present and future traffic flows were computed, related to functional requirements and land use projections, and possible improvements assessed. Some of the major street network plans were examined for functionality and construction staging feasibility.

Approving Section

The approval of subdivision of land applications for all rural areas in the Province lies with the Ministry and is administered through 38 District offices and six Regional offices. The Ministry approved 1,691 subdivision applications which created an additional 4,986 building lots and approximately 230 km of highway were added to the system through dedication of road by subdivision.

The offices also approved the following applications:

Controlled Access Permits	466
Ordinary Driveway Permits	4,102
Zoning Bylaws	896
Other Permits	4,895

Regional Summary of Regulatory Activities
Fiscal Year 1983/1984

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Burnaby	60	271	327	580	150	854	20.447	13.552
Kamloops	145	1,135	250	1,681	427	986	26.087	62.675
Nelson	75	481	84	632	254	524	26.792	27.885
Prince George	78	621	111	807	210	664	100.586	38.469
Terrace	53	212	25	244	81	203	10.885	7.274
Nanaimo	71	1,142	217	889	465	1,392	41.386	26.231
TOTALS	482	3,862	1,014	4,833	1,597	4,723	226.183	176.086

(1) Controlled Access Permits Issued
(2) Ordinary Access Permits Issued
(3) Zoning Bylaws
(4) Other Permits
(5) Subdivisions (Final)
(6) Lots Created (Final)
(7) Kilometres of New Road Dedicated (Final)
(8) Hectares of Widened Right-of-Way to Existing Highways.

Traffic Engineering Section

Traffic Engineering Section activity in 1983 continued to grow and again exceeded that of the previous year.

In continued cooperation with other organizations the Section participated in traffic operations, standardization of traffic control devices and traffic safety inquiries. The Director of Traffic Engineering represented the Ministry on the Council on Uniform Traffic Control Devices for Canada and the Roads and Transportation Association of Canada Committee on traffic operations.

Short duration traffic counts were taken with portable automatic equipment at about 800 locations.

For several years the Section has been replacing road tube detectors at short duration counting locations with wire inductance loops embedded in the roadway surface. This system increases count accuracy while lessening the number of times employees must work on, or cross over, travelled roadways. To date, more then 440 short count stations have been so converted. More inductance loops were also installed to record traffic using Provincial parks, campgrounds and roadside rest areas.

Traffic volumes are recorded continuously by direction at 28 different locations in the Province.

In 1983, traffic volumes increased in the Northern Interior by three percent, on the Lower Mainland by three percent, on Vancouver Island by four percent and decreased in the Southern Interior by two percent.

Intersection problems were investigated during the year and designs prepared for improvements at approximately 43 intersections and median island projects.

Four railway grade crossings were signalized in cooperation with the Canadian Transport Committee and the railways.

Changing conditions require a control review of many speed limits. The Ministry obtains the opinions of police forces responsible and in many cases checks travel speed with radar.

Electrical Engineering Section

A very extensive electrical design program including major construction projects, street lighting and traffic signals continued again this year.

New traffic signals were installed at 35 intersections and signals at 24 intersections were reconstructed.

Intensive one week training seminars were expanded this year at the traffic signal shop covering the new microprocessor controlled solid state traffic controllers computerized road signs, and 11 Highways Ministry electricians from all Regions of the Province benefitted from this program.

Energy conservation is the continuing primary design consideration in the Electrical Section and more than 1,700 new energy efficient sodium street lights were installed. Region 3 and 6 will be completely charged out to energy efficient sodium lights this year. Installation of new low demarcation lighting for seven bridges on the Squamish Highway was completed this year.

Port Mann Bridge now has a new energy efficient high pressure sodium lighting system installed to replace the old fluorescent lighting system.

Region 1's bridge crew installed the new luminaire pole supports and the District electrical crew completed the installation of the lighting system. The efficient work of these crews resulted in a very economical installation.

The old lighting system was expensive to both maintain and operate, costing in excess of $30,000 per year. This old system had 3,406 fluorescent lamps while the new system consists of only 36 - 400 watt HPS lamps and the maintenance and operating cost will be under $4,000 per year - a saving of $26,000.

The new lighting system has the luminaires mounted on 45 foot poles and this maintains the uncluttered look of the structure.

CLASSIFICATION OF HIGHWAYS
(Under Part III of the Highway Act)
Statement Showing Highways Classified as at March 31, 1984

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
ABBOTSFORD (D)*	5R	Essendene Ave. & Huntington-Mission Hwy. (West Railway St.)	Arterial	0.80	—
	11R	Huntingdon-Mission Hwy.	Arterial	0.53	—
	336R	McCallum Road (East Side)	Arterial	0.37	—
	342R	McCallum Road (East Side)	Arterial	1.59	—
	381R	Trans-Canada Hwy. & Interchanges	Arterial	27.12	—
	402R	Trans-Canada Hwy.	Arterial	2.01	—
	403R	Huntingdon-Mission Hwy.	Arterial	4.70	—
	771R	Huntingdon-Mission Hwy. Realign.	Arterial	1.41	
	202B	No. 3 Road	Secondary	—	3.06
ALERT BAY (V)	647R	Fir Street	Arterial	2.76	—
ARMSTRONG (C)	270R	Vernon-Sicamous Hwy.	Arterial	0.84	—
	272B	Pleasant Valley Rd. & Smith Dr.	Secondary	—	2.82
	296B	Armstrong-Salmon River Rd.	Secondary	—	1.55
ASHCROFT (V)	580R	Ashcroft-Cache Ck. Hwy., 1st St., Barnes Ave. & Highland Valley Rd.	Arterial	4.26	—
BELCARRA (V)		NIL			
BURNABY (D)	1R	Kingsway	Arterial	6.79	—
	17R	Lougheed Hwy.	Arterial	9.90	—
	135R	Canada Way (Grandview-Douglas Hwy.)	Arterial	4.14	—
	272R	Tenth Ave. (north half)	Arterial	2.01	—
	293R	Barnet Hwy.	Arterial	10.27	—
	376R	Trans-Canada Hwy. & Interchanges	Arterial	22.90	—
	414R	Simon Fraser University Access Hwy.	Arterial	3.41	—
	415R	Simon Fraser University Curtis Extension Road	Arterial	0.10	—
	618R	Grandview Hwy. (Clydesdale)	Arterial	0.09	—
	663R	Gaglardi Way	Arterial	0.98	—
	739R	Marine Way	Arterial	5.80	—
	14B	North Road (west half)	Secondary	—	2.25
	22B	Marine Drive	Secondary	—	5.31
BURNS LAKE (V)	298R	Burns Lake-Babine Road	Arterial	0.85	—
	731R	North Francois Highway	Arterial	0.73	—
	732R	Yellowhead Highway	Arterial	23.80	—
CACHE CREEK (V)	569R	Cariboo Hwy.	Arterial	0.82	—
	643R	Trans-Canada Hwy.	Arterial	5.85	—
CAMPBELL RIVER (D)	750R	Campbell River-Gold River Hwy.	Arterial	8.99	—
	782R	Island Hwy. & Discovery Cres.	Arterial	18.78	—
	292B	Drewster Lake Road	Secondary	—	4.03
CASTLEGAR (C)	452R	Southern Trans-Provincial Hwy.	Arterial	2.86	—
	626R	Columbia Avenue	Arterial	6.08	—
	261B	Columbia Avenue	Secondary	—	3.91
CENTRAL SAANICH (D)	170R	West Saanich Road	Arterial	7.32	—
	172R	Verdier Avenue	Arterial	1.24	—
	213R	Patricia Bay Hwy.	Arterial	6.92	—
	121B	Keating Cross Road	Secondary	—	3.22
	216B	Island View Rd., Saanich Cross Rd. & Central Saanich Rd.	Secondary	—	1.06

* Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
CHASE (V)	500R	Trans-Canada Hwy.	Arterial	1.61	—
	229B	Old Trans-Canada Hwy. (Chase Business Route)	Secondary	—	2.74
	282B	Pine Street	Secondary	—	0.95
CHETWYND (D)	675R	John Hart-Peace River Hwy.	Arterial	3.83	—
	717R	Hundson's Hope Highway	Arterial	2.27	—
CHILLIWACK (D)	260R	Chilliwack Lake Road	Arterial	1.24	—
	344R	Trans-Canada Hwy.	Arterial	24.65	—
	752R	Yale Road West	Arterial	3.45	—
	174B	Yale Road East	Secondary	—	11.97
	277B	Vedder Mtn. Rd., Yarrow Central Rd. & Dyke Road	Secondary	—	8.14
	280B	Yale Road, Cheam Ave., Hope St., First Ave. & Broadway St.	Secondary	—	2.16
	281B	First Ave. & Broadway St.	Secondary	—	1.04
	294B	Vedder Road & Cultus Lake Road	Secondary	—	6.05
CLINTON (V)	387R	Cariboo Highway	Arterial	2.06	—
	391R	Pavilion-Clinton Road	Arterial	0.55	—
COLDSTREAM (D)	103R	Vernon-Slocan Hwy.	Arterial	14.48	—
	754R	Okanagan Hwy.	Arterial	2.03	—
COMOX (T)	291B	Comox Ave. & Anderton Rd.	Secondary	—	2.64
	293B	Comox Ave., Pritchard Road, Balmoral Ave., & Port Augusta St.	Secondary	—	2.30
COQUITLAM (D)	167R	Brunette Street	Arterial	0.64	—
	553R	Trans-Canada Hwy. & Interchanges	Arterial	11.67	—
	566R	Lougheed Hwy.	Arterial	11.76	—
	578R	Barnet Hwy.	Arterial	1.93	—
	722R	Mary Hill Bypass Interchange	Arterial	1.13	—
	788R	Mary Hill Bypass	Arterial	1.08	—
	14B	North Road (east half)	Secondary	—	2.25
	115B	Clarke Road	Secondary	—	1.69
COURTENAY (C)	653R	Island Highway	Arterial	4.31	—
	654R	Ryan Road	Arterial	2.72	—
	741R	Comox Road	Arterial	0.39	—
	742R	17th St. Bridge & New Island Hwy.	Arterial	1.29	—
	222B	Eighth St., Fitzgerald Ave. & Fifth Street	Secondary	—	0.88
	223B	Cumberland Road	Secondary	—	1.74
CRANBROOK (C)	628R	Southern Trans-Provincial Hwy.	Arterial	6.07	—
CRESTON (T)	718R	Southern Trans-Provincial Hwy.	Arterial	5.36	—
	275B	Erickson St., 17th Ave. & 16th Ave.	Secondary	—	2.03
CUMBERLAND (V)	266B	Courtenay-Cumberland Rd. (Fourth St. & Cumberland Rd.)	Secondary	—	1.52
	274B	Royston Rd.-Dunsmuir Ave.-Suttons Rd.	Secondary	—	2.33
DAWSON CREEK (C)	257R	John Hart-Peace River Hwy.	Arterial	0.61	—
	363R	Alaska Hwy., Alaska Ave. & Dawson Ck.-Spirit River Hwy.	Arterial	5.18	—
	740R	Dawson Creek-Tupper Hwy (Eighth St.)	Arterial	7.07	—
	196B	Eighth St.	Secondary	—	1.72

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
DELTA (D)	349R	Tsawwassen Hwy.	Arterial	10.35	—
	350R	Point Roberts Hwy.	Arterial	4.57	—
	352R	Scott Road (west side)	Arterial	7.92	—
	353R	Vancouver-Blaine Hwy.	Arterial	14.76	—
	530R	Roberts Bank Road	Arterial	5.31	—
	685R	Ladner-Langley Hwy.	Arterial	13.26	—
	721R	Swenson Road	Arterial	925 m	—
	734R	Annacis Island Hwy.	Arterial	9.00	—
	746R	River Road Connector (Nor Del Interchange)	Arterial	0.61	—
	766R	Annacis Island Access Road	Arterial	0.43	—
DUNCAN (C)	281R	Trans-Canada Hwy.	Arterial	1.21	—
	282R	Trunk Rd. & Government St.	Arterial	2.01	—
	119B	Tzouhalem Rd.	Secondary	—	1.09
ELKFORD (D)	729R	Elk Valley Rd.	Arterial	8.20	—
	743R	Fording Mine Road	Arterial	15.00	—
ENDERBY (C)	36R	Vernon-Sicamous Hwy.	Arterial	1.79	—
	125B	Cliff Street	Secondary	—	0.26
ESQUIMALT (D)	472R	Craigflower Road	Arterial	2.65	—
	246B	Tillicum Road	Secondary	—	0.53
FERNIE (C)	646R	Southern Trans-Provincial Hwy.	Arterial	3.80	—
FORT NELSON (V)		NIL			
FORT ST. JAMES (V)	680R	Lakeshore Dr. & Resort Hill Rd.	Arterial	1.45	—
	728R	Vanderhoof-Stuart Lake Hwy. (Douglas Ave. & Stuart Dr. W.) & Germansen Landing Rd.	Arterial	4.15	—
	738R	Tachie Road	Arterial	4.27	—
FORT ST. JOHN (C)	279R	100 St. (MacKenzie St.)	Arterial	3.43	—
	658R	100 Ave. (Centre Ave.)	Arterial	3.20	—
	682R	Alaska Highway	Arterial	4.41	—
FRASER LAKE (V)	735R	Yellowhead Highway	Arterial	2.68	—
FRUITVALE (V)	202R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	2.98	—
	129B	Columbia Gardens Rd.	Secondary	—	1.29
GIBSONS (T)	606R	Sunshine Coast Hwy.	Arterial	2.99	—
	226B	Gower Point Road	Secondary	—	1.95
	227B	North Road	Secondary	—	0.80
GOLDEN (T)	604R	Trans-Canada Hwy.	Arterial	4.07	—
	639R	Kootenay-Columbia Hwy. (Golden Bypass)	Arterial	3.40	—
	745R	Kootenay-Columbia Hwy.	Arterial	3.90	—
GOLD RIVER (V)	677R	Muchalat Drive	Arterial	3.71	—
	678R	Gold River Road	Arterial	1.16	—
GRAND FORKS (C)	464R	Southern Trans-Provincial Hwy.	Arterial	4.80	—
GRANISLE (V)	527R	Granisle Arterial	Arterial	1.45	—
GREENWOOD (C)	619R	Southern Trans-Provincial Hwy.	Arterial	3.38	—
HARRISON HOT SPRINGS (V)	161R	Harrison Hot Springs Road and Lillooet Avenue	Arterial	4.25	—

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
HAZELTON (V)	590R	Hazelton Arterial	Arterial	2.40	—
	597R	Hazelton Access Road	Arterial	1.50	—
HOPE (T)	179R	Southern Trans-Provincial Hwy.	Arterial	2.65	—
	180R	Trans-Canada Hwy.	Arterial	1.69	—
	159B	Kawkawa Lake Road	Secondary	—	0.51
	160B	Sixth Avenue	Secondary	—	0.21
HOUSTON (D)	620R	Yellowhead Highway	Arterial	13.39	—
HUDSON'S HOPE (D)	520R	Peace River Canyon Road	Arterial	23.82	—
	521R	Chetwynd-Hudson's Hope-Charlie Lake Hwy.	Arterial	38.70	—
	715R	Beryl Prairie Road	Arterial	12.47	—
INVERMERE (D)	674R	13th Ave., 13th St., 7th Ave., 5A St., 7th St., & 3rd Ave.	Arterial	2.69	—
KASLO (V)	450R	Balfour-Kaslo-Galena Bay Hwy. & Kaslo-New Denver Hwy.	Arterial	2.99	—
	473R	Balfour-Kaslo-Galena Bay Hwy.	Arterial	1.19	—
KAMLOOPS (C)	694R	Trans-Canada Hwy.	Arterial	32.72	—
	696R	Princeton-Kamloops Hwy.	Arterial	5.67	—
	716R	Yellowhead South Hwy.	Arterial	12.59	—
	776R	Lac Le Jeune Road	Arterial	6.67	—
KELOWNA (C)	691R	Okanagan Hwy.	Arterial	20.91	—
	692R	Rock Creek-Kelowna Hwy.	Arterial	9.10	—
	701R	Rutland Road	Arterial	2.76	—
KENT (D)	160R	Harrison Hot Springs Road	Arterial	3.81	—
	290R	Rockwell Drive	Arterial	6.44	—
	545R	Agassiz Bypass	Arterial	2.74	—
	588R	Lougheed Hwy.	Arterial	33.50	—
	614R	Agassiz-Rosedale Hwy.	Arterial	4.59	—
KEREMEOS (V)	438R	Southern Trans-Provincial Hwy.	Arterial	2.00	—
	439R	Keremeos-Kaleden Junction	Arterial	0.82	—
KIMBERLEY (C)	557R	St. Mary's Lake Road	Arterial	4.02	—
	558R	Cranbrook-Kimberley-Wasa Hwy.	Arterial	9.49	—
KITIMAT (D)	277R	Terrace-Kitimat Hwy.	Arterial	6.84	—
	503R	Road to Industrial Area	Arterial	2.90	—
LADYSMITH (T)	577R	Trans-Canada Hwy.	Arterial	5.07	—
	176B	Chemainus Road	Secondary	—	1.45
LAKE COWICHAN (V)	679R	South Shore Road & Lake Cowichan Road	Arterial	2.48	—
LANGLEY (C)	263R	Fraser Hwy.	Arterial	4.83	—
	576R	200th St. (Carvolth Rd.)	Arterial	0.11	—
	665R	Langley Bypass	Arterial	1.27	—
	700R	Ladner-Langley Hwy.	Arterial	2.64	—
	256B	200th St. (Carvolth Rd.)	Secondary	—	3.22
LANGLEY (D)	77R	Aldergrove-Bellingham Hwy.	Arterial	6.50	—
	259R	Ladner-Langley Hwy. & Glover Rd.	Arterial	9.66	—
	262R	Fraser Hwy.	Arterial	17.70	—
	368R	County Line Rd. (Aldergrove-Bellingham Hwy.)	Arterial	4.34	—
	380R	Trans-Canada Hwy. & Inter.	Arterial	32.86	—
	445R	200th St. (Carvolth Rd.)	Arterial	5.02	—
	457R	Ladner-Langley Hwy.	Arterial	2.78	—

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
LILLOOET (V)	635R	Lytton-Lillooet Hwy.	Arterial	0.71	—
	662R	Nugget Road	Arterial	0.93	—
	760R	Lillooet-Pioneer Road, Main St. & Seton Lake Rd.	Arterial	3.40	—
LIONS BAY (V)	518R	Garibaldi Hwy.	Arterial	2.59	—
LOGAN LAKE (D)	641R	Meadow Creek Road	Arterial	3.73	—
	753R	Mamit Lake Road	Arterial	1.27	—
LUMBY (V)	775R	Vernon-Slocan Hwy.	Arterial	3.00	—
	279B	Shuswap Ave.	Secondary	—	2.66
LYTTON (V)	108R	Lytton-Lillooet Hwy. (Sixth & Fraser Streets)	Arterial	0.45	—
	478R	Trans-Canada Hwy.	Arterial	1.21	—
	479R	Lytton S. Approach & Main St.	Arterial	1.45	—
MCBRIDE (V)	526R	Yellowhead Highway	Arterial	1.19	—
	236B	First Ave. & Main St.	Secondary	—	1.25
MACKENZIE (D)	436R	MacKenzie Hwy. & Parsnip River Rd.	Arterial	20.44	—
MAPLE RIDGE (D)	22R	Lougheed Hwy.	Arterial	20.05	—
	407R	River Rd. & 17th Ave.	Arterial	0.39	—
	689R	222nd St. & River Rd.	Arterial	2.54	—
	253B	Dewdney Trunk Rd. & 224th St.	Secondary	—	17.94
	254B	232nd St. & Fern Crescent	Secondary	—	6.44
MASSET (V)	494R	Harrison Ave., Delkatla St., Hodges Ave., Delkatla Causeway, Shore Rd. & Queen Charlotte City-Masset Rd.	Arterial	4.59	—
	640R	Tow Hill Road	Arterial	7.72	—
MATSQUI (D)	337R	McCallum Rd. (West side)	Arterial	1.91	—
	422R	Fraser Hwy.	Arterial	5.79	—
	671R	Huntingdon-Mission Hwy.	Arterial	8.23	—
	772R	Huntingdon-Mission Hwy. Realign.	Arterial	1.52	—
	783R	Trans Canada Hwy.	Arterial	13.80	—
	784R	Old Clearbrook Interchange Off Ramp	Arterial	0.24	—
	186B	South Fraser Way	Secondary	—	4.26
MERRITT (C)	73R	Merritt-Spences Bridge Hwy.	Arterial	1.61	—
	708R	Princeton-Kamloops Hwy.	Arterial	4.26	—
MIDWAY (V)	458R	Southern Trans-Provincial Hwy.	Arterial	7.21	—
	459R	Midway-U.S. Customs Rd.	Arterial	1.98	—
MISSION (D)	23R	Lougheed Highway	Arterial	14.64	—
	25R	Lougheed Hwy. (1st Ave.)	Arterial	2.25	—
	563R	Huntingdon-Mission Hwy.	Arterial	2.38	—
	605R	Lougheed Hwy. (N. Railway Ave.)	Arterial	2.08	—
	672R	Huntingdon-Mission Hwy. (Northwest Approach)	Arterial	2.08	—
	77B	Dewdney Trunk Road	Secondary	—	24.94
	260B	Shook Road	Secondary	—	0.72
	283B	Grand St., Seventh Ave. & Cedar	Secondary	—	5.15
MONTROSE (V)	246R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.61	—

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
NAKUSP (V)	484R	Vernon-Slocan Hwy., Nelson Ave. & Broadway St.	Arterial	1.87	—
	540R	Nakusp-Mica Ck. Hwy. (Broadway St., 6th Ave. W. & Canyon Rd.)	Arterial	3.89	—
NANAIMO (C)	355R	Brechin Road	Arterial	1.05	—
	687R	Trans-Canada Hwy.	Arterial	10.44	—
	688R	Island Hwy.	Arterial	11.35	—
	221B	Esplanade & Front St.	Secondary	—	0.56
NELSON (C)	559R	Castlegar-Nelson-Creston Hwy.	Arterial	4.99	—
	560R	Nelson-Nelway Hwy.	Arterial	2.30	—
NEW DENVER (V)	88R	Vernon-Slocan Hwy.	Arterial	1.46	—
	291R	Kaslo-New Denver Hwy. (Sixth Ave. & Victoria St.)	Arterial	0.71	—
NEW HAZELTON (D)	709R	Yellowhead Hwy.	Arterial	7.00	—
	710R	New Hazelton Hi-Level Rd.	Arterial	0.60	—
NEW WEST-MINSTER (C)	734R	Annacis Island Highway	Arterial	1.60	—
	747R	Ewen Avenue, Pembina Street, Queensborough Bridge, including southerly & northerly approaches, Marine Drive & Sixth Avenue	Arterial	5.40	—
	765R	Annacis Island Access Road	Arterial	1.97	—
	777R	Marine Drive	Arterial	0.27	—
NORTH COWICHAN (D)	168R	Trans-Canada Hwy.	Arterial	19.47	—
	248R	Mt. Sicker Rd., Chemainus Rd., Crofton Rd. & Chaplin Rd.	Arterial	6.76	—
	249R	Cowichan Lake Road	Arterial	5.31	—
	482R	Cowichan Valley Hwy.	Arterial	5.57	—
	723R	Tanzor Road	Arterial	0.80	—
	169B	Chemainus Road	Secondary	—	7.88
	269B	Oak Street	Secondary	—	0.97
NORTH SAANICH (D)	411R	West Saanich Road	Arterial	9.01	—
	412R	Wains Road	Arterial	2.41	—
	416R	Lochside Drive	Arterial	0.71	—
	453R	Patricia Bay Hwy.	Arterial	6.39	—
	510R	Dolphin Rd. & Swartz Bay Rd.	Arterial	0.48	—
	585R	Canora Road	Arterial	0.97	—
	193B	McTavish Road	Secondary	—	3.54
NORTH VANCOUVER (C)	612R	Trans-Canada Hwy. & Interchanges	Arterial	4.81	—
NORTH VANCOUVER (D)	611R	Trans-Canada Hwy. & Interchanges	Arterial	12.31	—
	767R	Fern St., Mtn. Seymour Parkway Connector & Riverside Drive	Arterial	2.40	—
	773R	Dollarton Hwy. & Deep Cove Road,	Arterial	7.60	—
	297B	Mount Seymour Parkway	Secondary	—	3.90
OAK BAY (D)	162B	Cadboro Bay Road	Secondary	—	3.38
	290B	Cedar Hill Cross Rd.	Secondary	—	1.60
OLIVER (V)	441R	Okanagan Hwy. (First Ave.)	Arterial	1.77	—
	212B	Seventh St. & McKinney Rd.	Secondary	—	1.06
100 MILE HOUSE (V)	608R	Cariboo Hwy.	Arterial	2.40	—
	714R	Exeter Truck Route & Exeter Station Rd.	Arterial	1.23	—
	271B	Horse Lake Road	Secondary	—	0.85

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
OSOYOOS (T)	656R	Southern Trans-Provincial Hwy.	Arterial	5.53	—
	657R	Okanagan Hwy.	Arterial	1.60	—
	264B	Eighty-Ninth St. & Sixty-Fourth Ave.	Secondary	—	1.48
PARKSVILLE (T)	177R	Parksville-Port Alberni-Tofino Hwy.	Arterial	1.22	—
	706R	Island Highway	Arterial	3.67	—
	707R	Parksville Bypass	Arterial	1.10	—
PEACHLAND (D)	768R	Okanagan Hwy.	Arterial	11.52	—
	769R	Princeton Avenue	Arterial	5.73	—
PEMBERTON (V)	761R	Pemberton Meadows Road and Pemberton Portage Road	Arterial	1.67	—
	762R	Garibaldi Hwy. & Pemberton Portage Road	Arterial	7.40	—
PENTICTON (C)	634R	Okanagan Hwy.	Arterial	8.46	—
	638R	Martin St.	Arterial	1.10	—
	650R	Penticton Channel Parkway	Arterial	6.24	—
	763R	Penticton Channel Parkway	Arterial	1.16	—
	135B	Penticton-Naramata Road	Secondary	—	8.85
	273B	South Main St. & Lakeside Dr.	Secondary	—	[illegible]
PITT MEADOWS (D)	21R	Lougheed Highway	Arterial	5.20	—
	74B	Harris Road	Secondary	—	2.74
	75B	Hammond Road	Secondary	—	1.45
	78B	Harris Road	Secondary	—	3.06
	79B	McNeil Road	Secondary	—	3.22
	92B	Old Dewdney Trunk Road	Secondary	—	5.63
PORT ALBERNI (C)	33R	Parksville-Port Alberni-Tofino Hwy.	Arterial	2.90	—
	152R	Parksville-Port Alberni-Tofino Hwy. (River Road)	Arterial	2.57	—
	39B	Beaver Creek Road	Secondary	—	0.69
PORT ALICE (V)		NIL			
PORT CLEMENTS (V)	733R	Queen Charlotte City-Masset Rd.	Arterial	2.62	—
	744R	Cedar Ave., Jasper St., Bayview Dr., Bayview Crescent & Juskatla Bay Road	Arterial	4.20	—
PORT COQUITLAM (C)	594R	Lougheed Hwy.	Arterial	5.23	—
	673R	Mary Hill Bypass	Arterial	2.42	—
	788R	Mary Hill Bypass	Arterial	3.87	—
	288B	Pitt River Rd., McLean Ave. & Kingsway Ave.	Secondary	—	3.96
PORT EDWARD (V)	599R	Port Edward-Cassiar Cannery Rd.	Arterial	14.24	—
	686R	Yellowhead Highway	Arterial	27.00	—
PORT HARDY (D)	504R	Hardy Bay Road	Arterial	3.96	—
	506R	Island Highway	Arterial	2.29	—
	621R	Byng Road	Arterial	3.03	—
	713R	Island Highway	Arterial	9.40	—
	737R	Douglas St. & Holberg Rd.	Arterial	4.50	—
	240B	Airport Rd.	Secondary	—	2.67
PORT MCNEILL (T)	507R	Campbell Way	Arterial	1.93	—

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
PORT MOODY (C)	200R	Barnet Highway	Arterial	6.32	—
	632R	Ioco-Port Moody Rd. & Knowle Dr.	Arterial	4.25	—
	116B	Clarke Road	Secondary	—	1.29
	265B	Knowle Drive	Secondary	—	2.21
POUCE COUPE (V)	602R	Dawson Creek-Tupper Hwy.	Arterial	1.43	—
POWELL RIVER (D)	397R	Wharf Street	Arterial	0.14	—
	603R	Sunshine Coast Highway (Marine Ave., Ash Ave., Poplar St., Arbutus Ave. & Lund St.)	Arterial	14.48	—
	143B	Duncan Street	Secondary	—	2.74
PRINCE GEORGE (C)	697R	Yellowhead Highway	Arterial	26.38	—
	698R	Cariboo Hwy. & John Hart-Peace River Hwy.	Arterial	27.75	—
	699R	Aitcheson Rd. & Airport Rd.	Arterial	3.75	—
PRINCE RUPERT (C)	487R	Co-op Rd., Park Ave., Second Ave. McBride St. & Yellowhead Hwy.	Arterial	15.05	—
	730R	Ridley Island Access Road	Arterial	6.73	—
PRINCETON (T)	586R	Princeton-Kamloops Hwy.	Arterial	2.11	—
	587R	Tulameen Road	Arterial	2.99	—
	589R	Southern Trans-Provincial Hwy.	Arterial	3.54	—
	203B	Bridge Street	Secondary	—	0.64
QUALICUM BEACH (T)	94R	Island Highway	Arterial	5.25	—
	154R	Alberni Road, Second Ave., & Memorial Ave.	Arterial	2.57	—
	435R	Island Hwy. (Qualicum Beach Diversion)	Arterial	2.56	—
QUESNEL (C)	533R	Ewing St. & Fraser River Bridge	Arterial	0.39	—
	591R	Elliott St. & Blackwater Rd.	Arterial	2.04	—
	703R	Barkerville Highway	Arterial	0.15	—
	748R	Anderson Dr., Marsh Dr., Moffat Bridge & Approaches	Arterial	3.85	—
	785R	Cariboo Highway	Arterial	10.50	—
REVELSTOKE (C)	756R	Trans-Canada Hwy.	Arterial	8.80	—
	757R	Nakusp-Mica Creek Hwy.	Arterial	8.20	—
	758R	Victoria Rd., Wright St., Douglas St., Wilson St. & Big Eddy Rd.	Arterial	2.60	—
	295B	Victoria Road, Railway Avenue Fourth St., Townley St. & Revelstoke Eastern Access	Secondary	—	4.50
RICHMOND (D)	295R	Sea Island Highway	Arterial	1.50	—
	301R	Vancouver-Blaine Hwy.	Arterial	10.03	—
	343R	Westminster Hwy.	Arterial	10.38	—
	564R	Knight Street	Arterial	7.11	—
	734R	Annacis Island Hwy.	Arterial	1.30	—
	234B	No. 3 Rd. & Bridgeport Rd.	Secondary	—	3.70
ROSSLAND (C)	418R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.69	—
	622R	Rossland-Paterson Hwy. & Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	4.02	—

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
SAANICH (D)	529R	West Saanich Rd. & Royal Oak Dr.	Arterial	8.93	—
	538R	Trans-Canada Hwy.	Arterial	4.38	—
	660R	Patricia Bay Hwy.	Arterial	14.55	—
	661R	Trans-Canada Hwy.-Patricia Bay Highway Connector	Arterial	0.85	—
	681R	McKenzie Ave.	Arterial	2.08	—
	148B	Tillicum Road	Secondary	—	0.14
	154B	Gorge Road	Secondary	—	2.74
	237B	Quadra Street	Secondary	—	4.99
	238B	West Saanich Rd.	Secondary	—	1.21
SALMO (V)	668R	Southern Trans-Provincial Hwy.	Arterial	1.05	—
	669R	Nelson-Nelway Hwy.	Arterial	1.02	—
	670R	Fourth Street	Arterial	0.58	—
SALMON ARM (D)	655R	Grindrod-Salmon Arm Hwy.	Arterial	5.50	—
	683R	Trans-Canada Highway	Arterial	22.43	—
	23B	Salmon Arm-Enderby	Secondary	—	1.11
	24B	Salmon Arm-Enderby	Secondary	—	6.76
	80B	Salmon Arm-Enderby	Secondary	—	0.34
	217B	Salmon Arm-Grand Prairie Rd.	Secondary	—	9.98
SAYWARD (V)	693R	Sayward Highway	Arterial	4.38	—
SECHELT (V)	244R	Porpoise Bay Road	Arterial	1.05	—
	320R	Sunshine Coast Highway	Arterial	1.58	—
SIDNEY (T)	292R	Ocean Avenue	Arterial	0.29	—
	388R	Patricia Bay Highway	Arterial	3.03	—
	389R	Lochside Dr. & Fifth St.	Arterial	1.67	—
	390R	Beacon Avenue	Arterial	0.53	—
	194B	Fifth St., Malaview Ave. & Resthaven Drive	Secondary	—	2.86
	207B	First St. & Beacon Ave.	Secondary	—	0.85
	228B	McDonald Park Rd. (E. half)	Secondary	—	0.40
SILVERTON (V)	443R	Vernon-Slocan Highway	Arterial	0.95	—
SLOCAN (V)	581R	Vernon-Slocan Highway	Arterial	0.07	—
SMITHERS (T)	781R	Yellowhead Highway	Arterial	4.15	—
SPALLUMCHEEN (D)	271R	Vernon-Sicamous Hwy.	Arterial	21.73	—
	153B	Pleasant Valley Hwy.	Secondary	—	3.82
	171B	Armstrong-Salmon River Hwy.	Secondary	—	11.83
SPARWOOD (D)	448R	Corbin Road	Arterial	1.13	—
	489R	Elk Valley Road	Arterial	5.71	—
	724R	Southern Trans-Provincial Hwy.	Arterial	26.71	—
	755R	Elk Valley Road	Arterial	4.52	—
SQUAMISH (D)	399R	Darrel Bay Road	Arterial	0.32	—
	406R	Alice Lake Road	Arterial	0.58	—
	648R	Garibaldi Highway	Arterial	29.00	—
	649R	Squamish Valley Road	Arterial	5.25	—
	284B	Mamquam (Garibaldi Park) Rd.	Secondary	—	3.82
STEWART (D)	584R	Stewart-Meziadin Lake Hwy.	Arterial	17.06	—
SUMMERLAND (D)	770R	Okanagan Hwy.	Arterial	11.53	—
	270B	North Prairie Valley Rd.	Secondary	—	6.52
	289B	Fish Lake Road	Secondary	—	1.74

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
SURREY (D)	114R	Campbell River Road	Arterial	1.81	—
	125R	Ladner-Langley Hwy.	Arterial	10.04	—
	139R	Scott Road	Arterial	11.33	—
	269R	Ladner-Langley Hwy.	Arterial	4.46	—
	314R	Old Yale Rd. & Bridge Rd.	Arterial	1.21	—
	371R	Vancouver-Blaine Hwy. & Interchanges	Arterial	22.93	—
	379R	Trans-Canada Hwy. & Interchanges	Arterial	22.56	—
	384R	King George Hwy.	Arterial	27.02	—
	385R	Fraser Hwy.	Arterial	14.08	—
	455R	Ladner-Langley Hwy.	Arterial	0.97	—
	554R	Pacific Highway	Arterial	19.20	—
	150B	Campbell River Road	Secondary	—	2.41
	151B	Marine Dr., Stevenson Rd. & Crescent Road	Secondary	—	9.25
	182B	152nd St. (Johnston Road)	Secondary	—	2.41
TAHSIS (V)		NIL			
TAYLOR (V)	601R	Alaska Highway	Arterial	4.41	—
	161B	Taylor-Peaceview Road	Secondary	—	1.53
TELKWA (V)	440R	Yellowhead Highway	Arterial	2.30	—
	749R	Telkwa High Road & Tyhee Rd.	Arterial	1.11	—
	286B	Telkwa Coal Road	Secondary	—	1.80
TERRACE (D)	570R	Kalum Lake Road	Arterial	3.22	—
	595R	Yellowhead Highway	Arterial	5.95	—
TOFINO (D)	780R	Alberni-Tofino Hwy.	Arterial	9.01	—
TRAIL (C)	704R	Paterson-Rossland-Castlegar Hwy.	Arterial	2.02	—
	711R	Smelter Hill Road	Arterial	2.64	—
	789R	Rossland Ave., Victoria St., Columbia River Bridge, Bailey St., and Nancy Greene Lake-Rossland Meadows Hwy.	Arterial	8.25	—
	285B	Warfield Hill Road	Secondary	—	2.53
TUMBLER RIDGE (D)	726R	Chetwynd-Tumbler Ridge Rd.	Arterial	29.00	—
	727R	Heritage Highway	Arterial	39.00	—
UCLUELET (V)	192R	Tofino-Ucluelet Road (Peninsula Rd. & Main St.)	Arterial	1.82	—
VALEMOUNT (V)	432R	Fifth Avenue	Arterial	1.06	—
VANCOUVER (C)	375R	Trans-Canada Highway	Arterial	1.56	—
VANDERHOOF (D)	778R	Yellowhead Highway	Arterial	25.10	—
	779R	Burrard Ave. & Loop Road	Arterial	6.12	—
	288B	Kenney Dam Road	Secondary	—	3.60
VERNON (C)	573R	Okanagan Highway	Arterial	6.41	—
	684R	Vernon-Slocan Highway	Arterial	2.85	—
	251B	Twenty-Seventh St.	Secondary	—	1.85
WARFIELD (V)	623R	Nancy Greene Lake-Rossland Meadows Hwy.	Arterial	2.59	—

Statement Showing Highways Classified as at March 31, 1984 - Continued

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Secondary
WEST VANCOUVER (D)	89R	Marine Drive Addition	Arterial	0.16	—
	250R	Taylor Way	Arterial	1.13	—
	289R	Garibaldi Hwy.	Arterial	5.31	—
	372R	Marine Drive	Arterial	0.80	—
	613R	Trans-Canada Highway & Interchanges	Arterial	30.83	—
WHISTLER (R)	759R	Garibaldi Highway	Arterial	27.00	—
WHITE ROCK (C)	149B	Marine Drive	Secondary	—	5.02
WILLIAMS LAKE (C)	659R	Chilcotin-Bella Coola Hwy.	Arterial	3.12	—
	736R	MacKenzie Avenue	Arterial	7.40	—
	774R	Cariboo Highway	Arterial	6.09	—
ZEBALLOS (V)	198R	Zeballos Road	Arterial	1.61	—
			TOTALS	2,853.53	321.89

REPORT OF THE HIGHWAYS SAFETY ENGINEER

J. Lisman, P. Eng.

During the year, computer printouts that listed accidents along the main highway network for a 39-month period up to March of 1982, were issued to field offices of the Ministry, and to the R.C.M.P. Subdivisions and Detachments. This enabled Highway officials to scrutinize the high-frequency accident locations and consider candidates for remedial works. The R.C.M.P. made similar recommendations for highway improvements, but were also able to appreciate the practical value of more precise reporting of traffic accident locations. To assist them, a set of clear, detailed instructions was issued and good results are being seen in the improved quality of reports now being received.

It will be recognized that the fundamental basis of the Highway Safety Improvement System is accident data which is accurately linked to specific locations. In turn this allows good diagnosis of problem locations to be made, and from that, remedial work to be scheduled, i.e., placement of signs, traffic signals, roadside barrier, left-turn slots, etc.

A student was hired for the summer months to update the Kilometre Reference Marker system which is the basis for reporting the location of accidents. Considerable revision and update was made and the new highways in the Northeast Coal Development area were added to our system.

Several changes were made to the computer accident information system to allow easier understanding of accident patterns, and this was used in dealing with numerous requests and enquiries made in correspondence to the Ministry. Sometimes the accident data confirms apprehensions expressed by correspondents, and at other times the information may show that the action being requested by a citizen is not the necessary or appropriate one. In all cases the increased availability of accident records, and the ease with which these can now be scrutinized, means that the Ministry's response is a more informed solution to the problem.

A simple route map was prepared to advise commercial truck drivers of places on the Provincial highway network where these trucks had been involved in larger numbers of accidents. This information was distributed by the Northwestern Fleet Supervisors Alliance so that truck drivers can take account of potential problem areas when planning their trips.

This year saw the extensive installation of the new shapes of concrete barrier which met the design standards prepared earlier.

Design work continued in 1983 to deal with the serious problems of vehicles crashing into the ends of bridge parapets, or through the parapets themselves. A standard layout of concrete approach barriers was prepared for new bridges in which the barrier flares away from the roadway to produce smoother redirection of vehicles, with reduced hazard to the occupants. To deal with the maintenance problem in high snowfall areas a new stronger bridge parapet design was prepared, combining open metal railing with raised concrete curbs, and this complements the previous solid concrete parapet which is now being constructed on highway bridges.

Further work was carried out on designs of strengthening systems to retrofit to older bridges whose parapets would not contain larger vehicles striking them, and this will continue into next year. Design advice was given in the setting of standards for the new Annacis Road Bridge system, which will result in its construction to the best of contemporary safety standards.

In recent years concrete barriers have been used in B.C. in preference to the metal beam/timber post type that is more commonly used in other jurisdictions. While the concrete barrier is the best kind for many situations, the metal beam/post type has certain advantages, and it was decided to reintroduce to B.C. the improved systems developed in the U.S. and other parts of Canada. A set of specification drawings, incorporating modern standards and treatments of metal barriers, was designed and adopted for use where metal beam/post is the preferred type.

A new water-cushion impact attenuator was installed at the intersection of Highways 9 and 7 near Agassiz to prevent vehicles crashing through the gore area to the railway line below. The two narrow impact attenuators, installed earlier on the approaches to the George Massey Tunnel at each end of the concrete divider barriers, were crashed into by vehicles travelling at high speeds. In both instances the attenuators performed most satisfactorily, with moderate damage to the vehicles and only minor injuries to the occupants. Without the impact attenuators the crashes would have been much more severe, probably with loss of life.

In addition to the increasing volume of routine detail work, considerable time was taken to investigate circumstances and prepare for legal actions against the Crown, where road conditions and highway constructions were alleged factors in accident cases. The importance of this work in itself is obvious, and its value in helping to set safety standards forms an important part of developing Ministry safety engineering practices.

Several construction projects continued, and these included the insertion of left-turn slots in intersections. A total of 11 new sub-projects were started and five were continued, as part of the ongoing work to improve the roadside approaches near schools for pedestrians and cyclists. This is the fourth year of the school route project, and it is expected to extend for several more years.

Over $20,000 was spent on reflective delineators on Highway 99 north from Horseshoe Bay. This work should assist night-time drivers in negotiating curves and narrower bridges. Most sub-projects were modest in cost, such as some utility pole removal which totalled $3,800. This is a healthy development in that it reflects more refined local diagnosis of problems, and smaller expenditures are also usually more cost-effective.

The Highway Safety Engineer continued as a member of the C.C.M.T.A. Standing Committee on Road Safety, and became a member of the R.T.A.C. Project Committee on Traffic Guardrail/Barriers, which is now preparing a new chapter for the Canadian Highway Design Manual. His particular contribution is in writing the section describing where and when traffic barriers should be installed. He also serves on the Provincial Continuing Committee on Traffic Safety, chaired by Mr. R. Bourne.

Expenditures for the Fiscal Year 1983/84

C0202	Roadside Hazard Elimination	$ 32,890.06
C0203	Intersection Improvements	49,215.00
C0204	School Route Improvements	202,523.56
C0205	General Safety Works	117,316.33
C0207	Kilometre Reference Markers	14,947.94
C0209	General Expenses	127,370.91
	TOTAL	$ 544,263.80

REPORT OF THE DIRECTOR OF CONSTRUCTION

N.R. Zapf

During the year ending March 31, 1984, the Construction Branch was responsible for administering 57 major projects. Total value of works under construction was about $230,000,000. Of these, 28 were undertaken by day labour, eight by a combination of day labour and contract, and the remainder by contract. Ten of the contracts continued from the previous year, while the remaining 28 were awarded in 1983. The total expenditure for the 1983/84 fiscal year was expected to be about $130,000,000.

Good progress was made on almost all projects, aided mainly by an early spring break-up in the interior parts of the Province and by favourable summer and fall weather. The good construction season saw all Northeast Coal Development roads completed, as well as many other projects completed early this year, with other projects on or ahead of schedule.

Work has now been completed on the Revelstoke-Mica section on Highway 23, this year, with the last projects completed and paved. The previous projects were completed and paved from 1980 to 1983. Some slide remedial work remains to stabilize the road in a few locations as the reservoir rises this year. One bridge also has to be built owing to a washout last year at St. Cyr Creek. Road construction began in 1979 and finished in July, 1983, and represents a major effort and successful completion on the part of the contractors and the Ministry. Total grading cost of Revelstoke-Mica relocation is $108,000,000.

Work continued on the Coquihalla route with a 9.4 km project midway along the route nearly completed. Earthwork and preliminary gravelling of the four-lane design highway were completed. An integral part of the project was close environmental construction control.

The Northeast Coal Development road was completed except for some remaining paving. Six contracts were active and completed this year, with one contract being completed last year. All grading contracts were completed on schedule, allowing paving contracts to follow in the summer and early fall. The completion of the highway provides a fine access route to the new Tumbler Ridge townsite and coal fields. Total grading cost of the Northeast Coal projects is $73,000,000.

Two projects totalling 30 km on Highway 24 have completed the grading from Highway 97 to Little Fort. Work was completed well ahead of schedule and traffic is now using parts of the completed routes. Gravelling and paving projects will follow in the future to complete the construction of the important Highway 24 transportation link.

Many urban projects are advancing well throughout the Province to improve the transportation infrastructure within and close to major cities. Four-lane highway projects under way in Prince George (Foothills Boulevard, Patricia Boulevard, and the Highway 97 and Fifth Avenue Intersection), Quesnel (North Star Interchange), Kamloops (Halston), Kelowna (Glenmore Street, final completion of Westbank-Kelowna, the Westbank Couplet, Harvey Avenue), Penticton (Penticton Channel Parkway), Haney (Highway 7 four-laning), Abbotsford (Beck Road Bypass), Mission (Mission Roadworks), Marine Way through Burnaby and New Westminster, Mary Hill Bypass and Cape Horn-Colony Farm Roadworks through Coquitlam and Port Coquitlam, Mount Seymour Parkway in North Vancouver, and Victoria (McKenzie Avenue), will add greatly to urban traffic capacity.

With coal traffic beginning in late 1983 from Northeast Coal, C.N.R. will have much more traffic on their rail line from Prince George to Prince Rupert. Three projects are now under way that help separate roadway traffic from train traffic. Projects in Prince George and Burns Lake on Highway 16 will greatly aid local urban and highway traffic, and the Tyee project between Terrace and Prince Rupert will grade separate traffic at a dangerous location.

Work again continued to progress on the new Annacis route with most progress on roadwork on Annacis Island and in the Nordel Exchange area. New contracts were called for railway relocation, soil densification, future bridges, two dredging contracts, and most important, pier island construction for the main Annacis Bridge. The pier island contract was called following more than a year of very detailed technical study in conjunction with Federal Fisheries to mitigate any negative fishery impacts. Construction of the main Annacis Bridge was to start about April 1, 1984, following accelerated pier island construction.

Table 1 gives a breakdown of contracts by type being carried out in 1983/84:

Table 1

	Two-Lane	Four-Lane	Total
Urban Reconstruction/Relocation	2	5	7
Urban New Route	2	7	9
Rural Reconstruction/Relocation	3	0	2
Rural New Route	9	2	11
Other	-	-	9
	16	14	38
Grading Only	11 */		
Grading and Paving combined	19		
Other	8		

* Includes one contract on Highway 23, Revelstoke-Mica

/ Includes six contracts on Northeast Development Road

Table 2

(a) Project Summary and Distances

Number of projects	57
Number of contracts	38
Under construction	282 km
Two-Lane road built	156 km
Four-Lane road built	5 km
Two-lane paved	27 lane-km

(b) Quantities

Clearing and Grubbing	481 ha
Excavation - Rock	1,128,000 m^3
Excavation - Other materials	5,695,000 m^3
Select Granular Sub-base	1,833,000 t
Crushed Granular Base and Surfacing	520,000 t
Asphaltic Concrete	51,000 t

ANNACIS ROUTE, MAJOR PROJECTS 1983/84

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-1150	Supply of Dredged Material, Annacis Island and Nordel	—	Feb/83	Sept/83	100	Dredging sand on Annacis Island and Nordel Exchange area for future works.
C-1583	Test Fill, Burns Bog	—	June/82	—	70	A test fill being constructed to decide how to construct main thoroughfare through the deep bog area.
C-1584	Hogfuel Supply	—	Jan/84	Mar/84	100	Supply of hogfuel for use in road construction throughout the Annacis project.
C-1775	Annacis Island, Ditching & Grading	1.0	June/83	—	35	Ditching and grading underneath the north approach bridge. Includes B.C. Hydro railway relocation on Annacis Island.
C-2342	Annacis Island, Sewer Relocation	—	June/83	Oct/83	100	Moving a sewer line in Cliveden Interchange area to allow future grading.
C-2359	Queensborough, B.C. Hydro Rail Relocation	—	Oct/83	—	70	B.C. Hydro has a contract to relocate the B.C. Hydro railway in the Queensborough area. The Ministry is paying half. Rail relocation is necessary for future thoroughfare to be built.
C-2410	Supply of Dredged Material Lulu Island	—	Mar/84	—	0	Contract just awarded - to be completed in Sept/84
C-2413	Queensborough Loop Road	1.0	Dec/83	—	30	Grading and surcharging of Loop Road in areas next to the B.C. Hydro rail relocation grade. Grading will continue in the 1984/85 fiscal year.
C-2416	Annacis Island Section, Soil Densification	—	Feb/83	—	25	Special foundation strengthening under the main bridge north abutment to prevent failure due to earthquake.
C-2451	Grading: South Approach Structure	0.7	Feb/83	—	70	Grading under the south approach structure. Includes surcharging. The main and south approach structures may be constructed after the grading is completed.
C-2495	Grading: 84 Connector Road	1.6	Mar/83	—	10	Placing hogfuel for grade. Grading will be continued in 1984/85 fiscal year.

GRADING CONTRACTS PROGRESS - 1983/84

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-0282	John Hart-Peace River Highway, Azouzetta Lake-Garbitt Tunnel	97	13.31	May/83	—	40	Reconstruction of Hart Highway.
C-0406 -0001	Clanton Road, Galiano Island	—	0.92	July/83	Sept/83	100	Gravelling and paving of new Clanton Road.
C-0579	Coquihalla Highway, Construction: Dry Gulch - Mine Creek Section	—	13.94	May/83	—	90	Large earthmoving job done well under environmental control.
C-0916	93 Mile-Little Fort, Reconstruction: Little Fort-Phinetta Lake	24	8.38	Apr/83	Nov/83	100	Large rock excavation project. Completes grading of Highway 24 connection.
C-0982	Greater Kelowna Grid Road System, Glenmore Street Extension	—	5.00	May/83	Oct/83	100	New two-lane paved urban arterial through Kelowna
C-1121	Marine Way: Construction, Byrne Road-Queensborough Bridge	—	2.69	Apr/82	—	90	Continuation of four-laning of Marine Way. Completion to preliminary gravel. Involves hogfuel road construction. Several difficult utility relocations are completed.
C-1150	Fraser River Crossing, Highway 99 - Queensborough Bridge, Supply of Dredged Material	—	—	Feb/83	Sept/83	100	Dredged sand on Annacis Island and Nordel Exchange area for future works.
C-1312	Elk Valley Road, Construction: Sparwood-Cummings Creek Section	—	4.18	Oct/82	—	95	Reconstruction of Elk Valley Road.
C-1593	Fraser River Crossing (Annacis Island), Highway 99 - Queensborough Bridge, Pier Protection Works and Dredging	—	—	Oct/83	—	55	Construction of sand island foundation for main Annacis Bridge structure. Involves dyke construction into Fraser River and then filling with sand. Excellent progress.
C-1684	Yellowhead Highway, Construction: Tyee C.N.R. Overpass and Approaches	16	3.05	June/83	—	50	Major rock excavation along Skeena River. Involves building into Skeena River. Excellent progress.
C-1690	Lougheed Highway, Reconstruction: Part B: Haney-Albion Junction (240th St.) Part C: Kanaka Creek Bridge	7	4.19	Apr/83	—	75	Four-laning Lougheed Highway. Good progress.
C-1703	Foothills Boulevard Extension, Construction: Otway Road to North Nechako Road	—	2.16	May/83	Dec/83	100	Completion of four-laning of Foothills Boulevard in Prince George west.

GRADING CONTRACTS PROGRESS - 1983/84 - Continued

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-1710	Cariboo Highway, North Star Interchange and North Star Overpass	97	4.78	May/83	—	80	North Star Interchange and four-laning of Cariboo Highway. Excellent progress.
C-1711	Construction: Part B: McKenzie Avenue Extension, Burnside Road to Douglas St.; Part C: Swan Creek Bridge; Part D: Carey Road Pedestrian Overpass	—	1.83	Apr/83	—	75	Four-laning of McKenzie Avenue in Victoria to directly connect Highway 1 to Highway 17. Excellent progress.
C-1723	Cassiar Highway, Construction: Cranberry Crossing No. 1 to Derrick Creek	37	18.55	May/83	—	80	Reconstruction and paving of Highway 37. Completes section from Highway 16 to Meziadin Junction.
C-1725	Lynn Creek-Seymour River, Construction: Fern Street - Mount Seymour Parkway	—	3.69	May/83	—	70	Difficult urban project involving relocation of many utilities. Direct four-lane access from Highway 1 to Mount Seymour Parkway. Good progress.
C-1743	Cape Horn-Pitt River Highway, Contract #5, Mary Hill Bypass, Stage 2, Roadworks Connector to Broadway	—	4.91	May/83	—	55	Four-laning of Mary Hill Bypass. Will complete Mary Hill Bypass Route. Good progress.
C-1744	City of Penticton, Highway 97, Penticton Channel Parkway, Stage II, Paving, Curb and Gutter, Storm Drainage	97	3.15	May/83	—	80	Penticton Channel Parkway will be finished upon completion of this project. Good progress.
C-1799 -0001	Abbotsford-Mission Highway, Mission Overhead Approaches, Concrete Foundation Columns	11	—	Apr/83	Sept/83	100	Foundation stabilization for approach fills to Mission Overhead.
C-1799 -0002	Abbotsford-Mission Highway, Mission Overhead Approaches, Culvert Extension and Concrete Works	11	—	Nov/83	Mar/84	100	Extend Windebank Culvert
C-1799 -0003	Abbotsford-Mission Highway, Lougheed Highway Intersection, Gravelling and Paving	11	1.02	Mar/83	—	15	Paving of final portion of Mission Roadworks. Will complete Mission Roadworks project.
C-1815 -0001	Part I: Highway 97, Paving, Fifth Avenue Intersection; Part II: Highways Maintenance Yard, Gravelling & Paving; Part III: Highway 16, C.N.R. Overhead Approaches, Paving, West End of Fraser River Bridge	97 and 16	0.89	Oct/83	—	60	Paving reconstructed intersection of Highway 97 and Fifth Avenue in Prince George; paving of new Prince George Highways Yard; paving of new interchange at west end of Fraser River Bridge.

GRADING CONTRACTS PROGRESS - 1983/84 - Continued

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-1838 -0001	Inonoaklin Creek Crossing to Deep Creek Cabin, Clearing and Logging	6	7.79	June/83	Oct/83	100	Clearing prior to day labour construction.
C-1838 -0002	Inonoaklin Creek Crossing to Deep Creek Cabin, Gravel Crushing	6	—	Aug/83	Sept/83	100	Crushed gravel for day labour use.
C-1841 -0001	Lougheed Highway, Gravelling and Paving, Cape Horn Interchange	7	5.31	Oct/83	—	35	Gravelling and paving of four-lane reconstruction of Lougheed Highway at Cape Horn, including feeder roads.
C-2329 -0001	North Francois Highway, Burns Lake C.N.R. Overpass and Approaches	35	0.83	Oct/83	—	5	Just started before winter shutdown. Will provide new access from Francois Lake Road direct to Highway 16.
C-2352 -0001	Revelstoke-Mica Highway, St. Cyr Culvert Remove Damaged Culvert	23	—	Aug/83	Aug/83	100	St. [illegible] Culvert was damaged by a flash flood. [illegible]ed.
C-2410	Fraser River Crossing (Annacis Island), Highway 99 - Queensborough Bridge, Supply of Dredged Material	—	—	—	—	0	[illegible] awarded. Supply of sand to Lulu Island for futu[illegible] Annacis project construction.
C-2416	Fraser River Crossing (Annacis Island), Highway 99 - Queensborough Bridge, Soil Densification	—	—	Feb/83	—	25	Special foundation strengthening under the main bridge north abutment to prevent bridge failure due to earthquake.
C-2431	Okanagan Highway 97, Gorman's Mill - Indian Reserve No. 9, Construction and Reconstruction	97	3.62	Mar/84	—	1	Just started. Four-laning through Westbank, including Westbank Couplet. Includes paving.
C-2459	Okanagan Highway 97, Harvey Avenue, Kelowna, Okanagan Bridge - Pandosy Street, Reconstruction	97	0.75	Mar/84	—	10	Six-laning Highway 97 through Kelowna. Utility moving and relocation included and completed.
C-3997 -0003	Marine Way, Paving: Greenall Road-Byrne Road	—	2.88	Nov/82	May/83	100	Four-lane gravelling and paving.

NORTHEAST COAL DEVELOPMENT ROAD 1983/84

Project Number	Location and Description	Date Started	Date Completed	Start* (km)	Length (km)	Remarks
C-4513	Junction Highway 97-Martin Creek	Aug/80	Aug/82	0.0	22.9	Complete.
C-0745	Martin Creek-Upper Martin Creek	May/82	July/83	22.9	13.9	Complete. Active 1983.
C-0746	Upper Martin Creek-Gwillim Lake	May/82	Oct/83	36.8	13.4	Complete. Active 1983.
C-0747	Gwillim Lake-Meikle Creek	May/82	Aug/83	50.2	4.8	Complete. Active 1983.
C-1138	Meikle Creek-Bullmoose	June/83	Sept/83	55.0	9.2	Complete. Active 1983.
C-0748	Bullmoose-Tumbler Ridge West	Sept/81	Sept/83	64.2	19.5	Complete. Active 1983.
C-0749	Bullmoose-Tumbler Ridge East	Oct/81	Aug/83	83.7	9.6	Complete. Active 1983.
					93.3	

* Distance from Junction of Highway 97 and Northeast Development Road

REVELSTOKE-MICA CONTRACTS (HIGHWAY 23) 1983/84

Project Number	Date Started	Date Completed	Start* (km)	Length (km)	Percent Complete	Remarks
C-3936	Nov/79	Oct/82	7.67	6.8	100	Complete.
C-3937	July/79	Aug/80	14.48	6.1	100	Complete.
C-3938	Apr/79	Aug/80	20.57	7.0	100	Complete.
C-3939A	Feb/79	Aug/80	28.60	5.2	100	Complete.
C-3939B	Feb/79	Aug/80	33.20	1.2	100	Complete.
C-3940	Aug/79	Sept/80	35.10	4.0	100	Complete. Incorporated Tunnel for Holdich Creek.
C-3941	Oct/79	Nov/81	39.20	7.5	100	Complete.
C-3942	May/79	July/81	47.30	11.5	100	Complete.
C-3943	Apr/80	May/82	60.30	7.4	100	Complete.
C-3958	Mar/80	May/82	68.53	8.2	100	Complete.
C-3959	Mar/79	July/80	91.70	3.8	100	Complete.
C-3960	June/80	Oct/82	107.20	9.1	100	Complete.
C-3961	Apr/79	June/82	116.30	6.9	100	Complete.
C-3962	Sept/80	Nov/82	125.20	6.1	100	Complete. Active 1983
				90.8		

* Distance from junction of Highway 23 and Highway 1.

REPORT OF THE DIRECTOR OF PAVING

D.F. Martin, P. Eng.

During the 1983/84 fiscal year, the Paving Branch administered work on 46 paving contracts and one day labour project. Work on 36 of these projects was completed during the year, while work on 11 is scheduled for completion in 1984. Of the projects completed in 1983, seven had been awarded prior to the 1983/84 fiscal year.

Some 1 066.8 km of road were surfaced with asphalt pavement during the fiscal year (1 140.28 km of 2-lane equivalent). In addition to the work performed under contract, paving branch operations crews have paved 106.4 km of road, and applied 570.1 km of surface seals, plus 22.2 km of shoulder seal.

Urban curb and gutter construction projects were undertaken in 1983 in Terrace (project S-1707), Lumby (project S-0637) and Cache Creek (project S-1729). With the exception of one approach to the uncompleted Bonaparte Creek Bridge in Cache Creek, all this work was finished.

The paving of projects S-1822 and S-1843 represents the completion of a three-year program to pave the relocated sections of Highway 23 between Revelstoke and Mica Dam. Portions of this highway had to be relocated above "full pool" level of the reservoir created by the new Revelstoke Canyon Dam north of Revelstoke.

The paving of projects S-1707 and S-1752 virtually completes the surfacing of Highways 37 and 37A from the junction of Highway 16 at Kitwanga to Meziadin Junction and Stewart. While project S-1752 in the Nass River area is incomplete, one lift of pavement has been placed on the entire project, with top lift to be placed in 1984. The only unpaved portion between Kitwanga and Stewart is a 18.55 km section north of the Cranberry River, currently under construction by others (project C-1723), and scheduled for paving in 1984.

Five paving projects this year used sulphur extended asphalt (SEA) for the paving mix. These projects are noted by an asterisk in the attached project list. (S-1303, S-1812, S-1813, S-1814 and S-1678). Only one SEA project (S-1303) was completed this year. Elemental sulphur, supplied hot in liquid form, replaces a significant portion of asphalt cement. While the use of sulphur results in a somewhat higher contract bid due to increased equipment requirements by the contractor, the current market price of sulphur is approximately one-third that of asphalt cement. The resultant savings, therefore, are governed by mix quantity and price differential between alternatives and they can be substantial. The incorporation of sulphur presents a less temperature susceptible pavement, thus permitting the use of softer asphalt cements plentiful in northern B.C. crude oils. These asphalts were not previously used extensively due to the instability of the resulting mix. While the use of SEA paving mixes has been the subject of experimental construction and field testing in B.C. for four years, and in other areas for 10 years, the quantity of SEA paving mix tendered by the Paving Branch in 1983 was the largest in the world. Upon completion of the current projects, the entire newly constructed highway linking Chetwynd with the Northeast Coal Development at Tumbler Ridge will be paved with sulphur-extended asphalt pavement. At the end of the paving season in 1983, all but 4.8 km of this highway had at least one lift of pavement placed on it, and approximately 35 km had top lift completed as well.

Materials Used/Work Performed Under Contract 1983/84 Fiscal Year

Description	Unit		Quantity
Common Excavation	m^3		32,399
Foundation and Trench Excavation	m^3		8,743
Select Granular Base	t		253,134
Crushed Granular Base	t		116,936
Crushed Granular Surfacing	t		1,492,818
Crushed Shoulder Aggregate	t		389,328
Crushed Aggregate in Stockpile	t		71,975
Seal Aggregate in Stockpile	t		10,813
Asphalt Concrete Pavement (AC)	t	1,666,546	
Sulphur Extended Asphalt Pavement (SEA)	t	96,772	
Asphalt Concrete Stabilized Base (AC)	t	258	
Sulphur Extended Stabilized Base (SEA)	t	174,219	
Asphalt Concrete Pavement (Total)	t	1,937,795	1,937,795
Asphalt Concrete Mix f.o.b. Plant (AC)	t	31,801	
Sulphur Asphalt Mix f.o.b. Plant (SEA)	t	1,969	
Asphalt Concrete Mix f.o.b. Plant (Total)	t	33,770	33,770
Asphalt Curb	m		59,720
Portland Cement Curb and Gutter	m		6,126
Portland Cement Curb	m		2,712
Portland Cement Sidewalk	m^2		504
Concrete Pipe Installed	m		619
Corrugated Metal Pipe Installed	m		5,896
Asphalt Cement - Liquid	t		98,317
Sulphur - Liquid	t		4,381
Cutback Asphalt	L		6,646,789
Emulsified Asphalt	L		440,203
Milling	m^2		623,831
Patch Mix in Stockpile	t		5,359
New 690 mm Barrier Installed	m		8,712
New 450 mm Barrier Installed	m		171
Remove and Install 650 mm Barrier	m		9,186

Work Performed by Day Labour 1983/84 Fiscal Year

Milling	m^2	188,809

Materials Used by Paving Branch Surfacing Operations Crews 1983/84 Fiscal Year

Asphalt Pavement	t	121,645
Asphalt Patch Mix in Stockpile	t	12,027
Crushed Surfacing Aggregate	m^3	56,500
Asphalt Cement	t	1,069
Cutback Asphalts	L	3,041,734
High Float Emulsified Asphalt	L	10,941,431

Paving Contract Summary

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	Length Completed This Year: Actual Length	Length Completed This Year: 2-Lane Equivalent	Remarks
Contracts Awarded Prior to the 1983/84 Fiscal Year						
S-1549	TRANS CANADA HWY. 1 THOMPSON CANYON - SPENCES BRIDGE (Milling and Paving)	Columbia Bitulithic Ltd.	23.90	17.53	24.87	Complete (Completion of 1982 project)
S-1393 *	NORTHEAST COAL DEVELOPMENT ROAD: JUNCTION HWY. 97 TO MARTIN CREEK SECTION (Granular Surfacing & SEA Paving)	Columbia Bitulithic Ltd.	23.15	23.15	25.45	Complete
S-1679	NECHAKO RIVER CROSSING BRIDGE APPROACHES (Granular Surfacing & Paving)	H. Williamson Blacktop & Landscaping	7.50	7.50	7.50	Complete
S-1686	SECTIONS OF OKANAGAN HIGHWAY 97 FROM SUMMERLAND TO PEACHLAND (Asphalt Paving)	Peters Bros. Paving (1981) Ltd.	17.00	17.00	17.00	Complete
S-1687	HWY. 1 INTERMITTENT SECTIONS BETWEEN LAKE OF THE WOODS & JACKASS MOUNTAIN (Milling & Paving)	Columbia Bitulithic Ltd.	26.70	26.70	25.70	Complete
S-1732	HWY. 16 EAST: UPPER FRASER ROAD TO BOWRON RIVER BRIDGE (Asphalt Paving)	H. Williamson Blacktop & Landscaping	37.00	37.00	40.00	Complete
S-1750	HWY. 97 ALASKA HWY. NORTH KISKATINAW TO ROAD 289 (Asphalt Paving)	Rorison Construction Ltd.	44.40	44.40	47.80	Complete
Contracts Awarded During the 1983/84 Fiscal Year						
S-0637	VILLAGE OF LUMBY FROM CATT AVENUE TO SHUSWAP AVENUE (Curb & Gutter & Paving) HIGHWAY 6 PAVING (Granular Surfacing & Paving)	Vernon Paving Ltd.	11.43	11.43	11.83	Complete
S-1678 *	HWY. 16: YELLOWHEAD LEE ROAD - FRASER RIVER BRIDGE & MISCELLANEOUS ROADS (SEA Asphalt Stabilized Base & SEA Paving)	Midvalley Construction Ltd.	41.50	3.00	3.00	Incomplete
S-1688	HWY. 1 THOMPSON RIVER BRIDGE TO AFTON MINES RELOCATION (Granular Surfacing & Paving)	H. Williamson Blacktop & Landscaping	37.10	37.10	47.75	Complete
S-1705	A. HWY. 97 KITWANCOOL NORTH B. KITWANCOOL ACCESSES & STREETS (Base Preparation & Paving)	Midvalley Construction Ltd.	47.10	47.10	47.10	Incomplete (Shoulder treatment to be done; paving complete)
S-1707	HWY. 16 KENNEY ST. TO EBY ST. (Storm Sewer Curb & Gutter & Paving) MISCELLANEOUS STREETS THORNHILL AREA (Granular Surfacing, Base Preparation and Paving)	Columbia Bitulithic Ltd.	30.20	30.20	31.35	Complete
S-1721	YELLOWHEAD HWY. 16 BACKWATER CREEK - KASIKS RIVER (Granular Base & Surfacing, Paving)	Columbia Bitulithic Ltd.	11.90	11.90	11.90	Complete
S-1726	S.T.P. HIGHWAY 3, FORT STEELE TO WARDNER (Shoulder Build-Up & Paving)	Cantex Engineering & Construction	23.00	23.00	25.80	Complete
S-1727	UPPER FRASER RIVER ROAD (Granular Surfacing & Paving)	H. Williamson Blacktop & Landscaping	24.24	24.24	24.24	Complete
S-1728	HWY. 24 & HORSE LAKE ROAD (Granular Base & Surfacing, Paving)	H. Williamson Blacktop & Landscaping	30.56	30.56	31.00	Complete
S-1729	HWYS. 1 & 97 in CACHE CREEK (Storm Sewer, Curb & Gutter & Paving)	Argo Industries	1.72	1.05	4.05	Incomplete

PAVING CONTRACT SUMMARY - Continued

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	Length Completed This Year		Remarks
				Actual Length	2-Lane Equivalent	
Contracts Awarded During the 1983/84 Fiscal Year - Continued						
S-1730	SALMON ARM DISTRICT MISC. ROADS (Granular Surfacing & Paving)	Columbia River Paving Ltd.	23.90	23.90	23.90	Complete
S-1731	NORTH SHUSWAP MISC. ROADS (Granular Base & Surfacing, Milling & Paving)	Cantex Engineering & Construction	29.68	29.68	29.33	Complete
S-1732	HWY. 5 SECTIONS FROM HEFFLEY CREEK TO BARRIERE (Shoulder Build-Up and Paving)	Midvalley Const. Ltd.	36.95	36.95	37.51	Complete
S-1737	HWY. 16 BURNS LAKE TO TINTAGEL; AND HWY. 35 BURNS LAKE HIGHWAYS DISTRICT (Granular Surfacing & Paving)	Grandview Blacktop Ltd.	28.50	28.50	27.80	Incomplete (Paving complete; shoulder treatment to be done)
S-1738	MISCELLANEOUS SECTIONS IN THE SURREY, DELTA & RICHMOND AREAS (Milling and Paving)	Jack Cewe Ltd.	15.55	15.55	21.90	Complete
S-1739	MISCELLANEOUS ROADS DAWSON CREEK AREA (Granular Surfacing & Paving)	Aero Asphalt Paving Ltd.	24.50	24.50	34.50	Complete
S-1741	NORTH FORK ROAD (GRAND FORKS) & MISCELLANEOUS JUNCTIONS OF HWY. 3 (Granular Surfacing & Paving)	Peter Bros. Paving (1981) Ltd.	18.00	18.00	18.00	Complete
S-1742	HWY. 19 ISLAND HWY. COURTENAY TO BLACK CREEK BRIDGE & MISCELLANEOUS ROADS (Granular Base & Surfacing, Milling & Paving)	Winvan Paving Ltd.	22.50	9.00	9.00	Incomplete
S-1748	KINGSWAY - EDMONDS TO BOUNDARY ROAD (Milling & Paving)	Winvan Paving Ltd.	5.50	5.50	11.00	Complete
S-1749	HWY. 1 POPKUM AREA ROADS, HWY. 7 LAKE ERROCK TO JUNCTION OF HIGHWAYS 7 & 19 (Milling & Paving)	Columbia Bitulithic Ltd.	25.86	25.86	25.29	Complete
S-1751	STAVE RIVER TO MISSION HWY. 7 LOUGHEED (Shoulder Build-Up & Paving)	Grandview Blacktop Ltd.	9.90	1.00	1.00	Incomplete
S-1752	HWY. 37 NASS RIVER TO HANNA CREEK STEWART-MEZIADIN HWY. MEZIADIN TO SURPRISE CREEK (Granular Surfacing & Paving)	West Coast Paving Ltd.	27.00	13.00	13.00	Incomplete
S-1754	HWY. 1 TRANS CANADA SECTIONS CAPILANO BRIDGE TO EAST OF PORT MANN BRIDGE (Milling & Paving)	Columbia Bitulithic Ltd.	25.40	25.40	25.40	Complete
S-1763	KALUM LAKE ROAD (Granular Base & Surfacing, Paving)	Venture Paving Ltd.	51.10	10.00	10.00	Incomplete
S-1764	HWY. 20 CHILCOTIN; km 81.8 to 112.3 ALEXIS CREEK MISCELLANEOUS STREETS (Granular Surfacing & Paving)	H. Williamson Blacktop & Landscaping	33.90	33.90	37.00	Complete
S-1765	HWY. 16 & MISCELLANEOUS SMITHERS ROADS (Base Preparation, Granular Surfacing & Paving)	Leduc Paving Ltd.	50.02	50.02	50.02	Complete
S-1766	HWY. 1 & MISC. ROADS IN GOLDEN AREA (Base Preparation & Paving)	Cantex Engineering & Construction	20.00	20.00	24.40	Complete
S-1768	HWY. 26 PAVING MISC. ROADS QUESNEL AREA (Granular Surfacing & Paving)	Columbia Bitulithic Ltd.	67.08	67.08	68.91	Complete
S-1784	HWY. 97 CARIBOO MARGUERITE-QUESNEL SECTION & MISCELLANEOUS ROADS KERSLEY AREA (Granular Surfacing & Paving)	Columbia Bitulithic Ltd.	62.37	62.37	66.87	Complete

Paving Contract Summary – Continued

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	Length Completed This Year: Actual Length	Length Completed This Year: 2-Lane Equivalent	Remarks
Contracts Awarded During the 1983/84 Fiscal Year – Continued						
S-1797	MISC. ROADS IN CRANBROOK AREA (Granular Surfacing & Paving)	Cantex Engineering & Construction	16.20	16.20	16.20	Complete
S-1812 *	CHETWYND-TUMBLER RIDGE HWY: MARTIN CR. TO GWILLIM LAKE PARK BDY. (Granular Base & Surfacing, SEA Stabilized Base & SEA Paving)	Ledue Paving Ltd.	29.75	19.00	25.00	Incomplete
S-1813 *	CHETWYND-TUMBLER RIDGE HWY: GWILLIM LAKE PARK BDY. TO BULL-MOOSE CREEK BRIDGE (Granular Surfacing, SEA Stabilized BASE & SEA Paving)	Columbia Bitulithic Ltd.	33.42	16.71	22.84	Incomplete
S-1814 *	CHETWYND-TUMBLER RIDGE HWY: BULLMOOSE CREEK BRIDGE TO QUINTETTE ACCESS ROAD (Granular Surfacing & SEA Paving)	Columbia Bitulithic Ltd.	24.62	12.31	13.54	Incomplete
S-1820	SMITHERS AREA ROADS (Asphalt Paving)	L.B. Paving	3.50	3.50	3.50	Complete
S-1822	HWY. 23 REVELSTOKE-MARTHA CREEK & MISC. STREETS IN REVELSTOKE (Granular Surfacing & Paving)	Columbia River Paving Ltd.	20.10	20.10	20.10	Complete
S-1824	MISC. PAVING ON HWYS. 3, 3A, 3B & 6 NELSON AREA (Asphalt Paving)	H. Williamson Blacktop & Landscaping	48.20	48.20	48.70	Complete
S-1843	HWY. 23 REVELSTOKE-MICA HIGMOUTH CREEK TO MICA DAMSITE SECTION (Granular Base & Surfacing, Paving)	Peters Bros. Paving (1981) Ltd.	30.60	30.60	30.60	Complete
S-2327	HWY. 3 RHODODENDRON FLATS, HOPE AREA (Asphalt Paving)	Columbia Bitulithic Ltd.	1.81	1.81	1.41	Complete
S-2398	WESTSIDE ROAD-KELOWNA AREA (Base Preparation & Paving)	-	5.10	5.10	5.10	Complete
TOTAL LENGTH PAVED 1983/84 FISCAL YEAR				1,065.80	1,149.33	
		DAY LABOUR 1983				
S-2397	HWY. 97 BARKERVILLE JUNCTION TO PLETT ROAD (Milling)	"Day Labour Basis"	n/a	n/a	n/a	Complete

SEALCOATING WORK BY PAVING BRANCH OPERATIONS CREWS (S-0084)

Electoral District	Job Number	Highways District	Location	km Road	km Shoulder	Remarks
Yale-Lillooet	1501	Chilliwack	Southern Trans Provincial Hwy. 3, from Nicolum Creek to Skaist Creek, east of Hope	35.40	0	Complete
Kamloops	2106	Kamloops	Shuswap Road east of Lafarge Cement Plant in the Kamloops area	11.40	-	Complete
Shuswap-Revelstoke	2204	Salmon Arm	Hwy. 97A, from Sicamous to Grindrod	27.20	-	Complete
Shuswap-Revelstoke	2206	Salmon Arm	Little Shuswap Road in Chase area	11.40	-	Complete
Boundary-Similkameen	2403	Penticton	Oliver area miscellaneous roads	35.70	-	Complete
Boundary-Similkameen	2408	Penticton	Green Mountain Road, from Penticton to Apex Ski area	30.00	-	Complete
Yale-Lillooet	2507	Merritt	Hwy. 5, from Aspen Grove to Hamilton Hill, south of Merritt	30.20	-	Complete
Okanagan South	2903	Kelowna	Hwy. 33, from Kelowna (Springfield Road) south to McCullogh Road; Big White Road, from its junction with Hwy. 33, east to end of pavement	48.00	-	Complete
Nelson-Creston	3103(a)	Nelson	Hwy. 3 from the Hwy. 6 junction at Salmo to the Hwy. 6 junction at Burnt Flat, and eastward on Hwy. 3	30.80	-	Complete
Rossland-Trail	3103(b)	Nelson	Hwy. 3B (Shoulders only), from Meadows Creek Junction to Fruitvale		22.20	Complete
Rossland-Trail	3204	Rossland	Hwy. 3A, Castlegar to Thrums	8.00	-	Partially Finished
Boundary-Similkameen	3310	Grand Forks	Hwy. 33, from Rock Creek to a point 19 km north; intermittent sections of Christan Valley Road were also sealed	26.10	-	Complete
Prince George North	4108	Prince George	Hwy. 97, from the Angusmac Bridge eastward	30.20	-	Complete
Prince George North	4109	Prince George	Hwy. 97, from the Chief Lake Road northward	21.00	-	Partially Finished
Omineca	4502	Vanderhoof	Hwy. 16, from Engen Overhead Railway Crossing to Endako Overhead Railway Crossing	64.40	-	Complete
Kamloops	4607	McBride	Hwy. 5, from the North Thompson River Bridge at Avola, south 29.7 km to rest area at Highways Regional Boundary	29.70	-	Complete
Omineca	5503	Burns Lake	Hwy. 16, from Houston Overhead Railway Crossing to Topley, and from 13 km east of Topley to Burns Lake	69.30	-	Complete
Omineca	5504	Burns Lake	Topley Landing Road, from Topley Landing to Granisle	51.30	-	Complete
North Island	6401	Courtenay	Island Hwy. 19, from Keta Lake Underpass to Eve River Bridge	10.00	-	Partially Finished
TOTAL (Sealcoating) 1983/84 FISCAL YEAR				570.10 km	22.20 km	

Paving Work by Paving Branch Operations Crews (S-0085)

Electoral District	Job Number	Highways District	Location	km Road	Remarks
Kamloops	2107	Kamloops	Misc. road in Barriere Townsite, as well as Squam Bay Road (Agate Bay Road), and East Barriere Lake Road in the Barriere area	17.70	Complete
Yale-Lillooet	2406(a)	Penticton	Princeton-Summerland Road (Osprey Lake Road) from the end of pavement eastward for 17.01 km	17.0	Complete
Yale-Lillooet	2406(b)	Penticton	Southern Trans Provincial Hwy. 3 immediately east of Princeton for 5.66 km	5.70	Complete
Yale-Lillooet	2502(a)	Merritt	Hwy. 5, north of Aspen Grove	6.50	Complete
Yale-Lillooet	2502(b)	Merritt	Lower Nicola area misc. roads	10.70	Complete
Yale-Lillooet	2502(c)	Merritt	Hwy. 8, intermittent patching between Spences Bridge and Lower Nicola	22.00	Complete
Yale-Lillooet	2506	Merritt	Highland Valley Road (Meadow Creek Road), east of Logan Lake	14.80	Complete
Cariboo	2609	Lillooet	Loon Lake Road, from Hwy. 97 to the beginning of previously existing pavement	12.00	Complete
TOTAL (Paving) 1983/84 FISCAL YEAR				106.4 km	

REPORT OF THE LANDS SURVEYS OFFICER

F.A. Clapp

During this fiscal year 159 survey projects were undertaken using funds from the Legal Survey, Construction and Paving Project votes in addition to work done on behalf of the British Columbia Ferry Corporation.

The total distance of highway legally surveyed amounted to 382 km. In addition, surveys were carried out to establish highway right of way through surplus lands prior to transfer to the Ministry of Lands, Parks and Housing for disposal; establishing highway right of way prior to road closures, plans of subdivision for gravel pit sites, statutory right of way plans for drainage easements, referencing prior to construction and for reposting highway right of way within subdivisions.

Work done for the British Columbia Ferry Authority included finalizing subdivision plans of consolidation at the Horseshoe Bay-Langdale and Departure Bay Terminals.

During the year a total of 294 plans were processed, of this number 140 were submitted to the various land title offices for registration.

Expenditures for the year were:-

Legal Survey Vote	$ 656,093.51
Construction Project Vote	$ 160,398.44
British Columbia Ferry Vote	$ 9,395.86
TOTAL	$ 825,887.91

REPORT OF THE DIRECTOR OF MAINTENANCE SERVICES

1983/84 has proven to be a year of weather extremes which in turn significantly affected roads and highways throughout the Province.

Heavy spring rains in various locations caused widespread washouts and erosion, particularly on the side road network. In the Prince George district, repairs exceeded $250,000, while in Penticton district, restoration costs approached $300,000, with one washout on Highway 3 eroding 15 000 m^3 of fill.

Unseasonal and intense wet weather in mid-July throughout much of British Columbia created significant flooding, erosion, fill-failures and washouts. The Trans Canada Highway was closed for three days west of Hope due to debris torrents and fill erosion, with repair costs approaching $200,000. Damage in the Revelstoke district due to washout roads and damaged bridges and culverts also exceeded $200,000.

Several timber bridges collapsed during the year as a result of damage or overloading. The Hanna Bridge, a log stringer structure, on Highway 37 north of Meziadin Junction, collapsed on October 24 closing the road for two days until a Bailey bridge was installed.

Extremely heavy rains on November 15 and 16 resulted in major washouts, debris torrents and flooding, primarily in south coastal areas. Several large debris torrents on Charles Creek, Squamish Highway, pushed two private bridges and the B.C. Rail Bridge into Howe Sound and seriously damaged the two upstream concrete stringers of the Highway 99 Bridge. Temporary repairs to date by the Ministry exceed $120,000. At the same time, widespread minor damage on Vancouver Island and the Sunshine Coast, in the way of flooding, slides and erosion, required $150,000 to repair.

On January 3 and 4, 1984, further torrential rain caused considerable damage to the highway network as a result of severe flooding washouts and debris flows. Areas particularly affected included the Fraser Valley and parts of the southern interior. Over 150 mm of rain in a 24-hour period precipitated large debris torrents, washouts and bridge damage, closing the Trans Canada Highway between Chilliwack and Hope for several days.

The 1983/84 winter maintenance program was faced with a relatively light snowfall in most areas, but extremely cold weather in December and January. This resulted in severe ice and freezing rain conditions over wide areas of the Province. An early thaw in January and February resulted in early load restrictions to combat breakup, even in some coastal locations.

SNOW AVALANCHE PROGRAM

The snow avalanche management program continues throughout the Province. Avalanche activity affecting highways has been below average in the Province due to warm temperatures and shallow snowpacks.

Training of maintenance personnel in avalanche awareness and safety continues to be a key section of the avalanche program.

Search and rescue programs are being upgraded for avalanche areas throughout the Province.

The snow and weather reporting network is continuing to operate successfully. A daily weather forecast was issued throughout the winter to assist in winter maintenance and avalanche programs.

The avalanche hazard evaluation of existing and proposed tramways, ski areas and helicopter skiing operations is continuing to increase as an activity in the avalanche program.

MAINTENANCE MANAGEMENT PROGRAM

The 1983/84 Provincial Maintenance Budget was $206,562,054. This compares with $201,195,177 for the previous year. As increased to inventory of maintainable features continues, the net result has been a lowering of service levels achievable. Some inventory increases, which affect the following year's Performance Budgets, include:

	1981/82	1982/83	1983/84
Kilometres of road	43,853	44,749 (+ 2.0%)	45,213 (+ 1.0%)
Lane-km Pavement	38,406	38,893 (+ 1.3%)	40,666 (+ 4.6%)
Culverts	146,787	151,442 (+ 3.2%)	156,443 (+ 3.3%)
Sign Posts	90,181	92,866 (+ 3.0%)	96,978 (+ 4.4%)
Dust Sites	18,624	18,905 (+ 1.5%)	20,861 (+ 10.3%)

Reduced service levels were effected in activities such as roadside swath mowing, regravelling gravel roads, ditch cleaning, litter pick-up, sign maintenance and supervision.

A major effort was made to institute good planning and scheduling techniques for road crews throughout the Province. This has proven to be very beneficial in achieving greater amounts of work and in aiding foremen with work planning and layout.

The maintenance management system continues to provide management with reports on operations weekly and monthly with quick turn-around via a distributed data-entry network. These reports also provide financial distribution information. There are approximately 40 different reports available, each tailored for specific management levels.

MAINTENANCE OPERATIONS

The minor betterment program, allocated from capital funds, was $12,000,000. This was used to make minor improvements to various roads within every district.

The ongoing evaluation of bulk material ordering for winter salt and summer dust palliatives is showing some savings in material costs and efficiencies in processing time. In addition, the trend toward supplier application of dust palliatives and the conversion from rail to truck delivery of salt is now saving the Ministry up to $1,000,000 per year.

The bridge inventory and inspection system has evolved to the point where management now has detailed information and inspection summaries available on short notice for all structures. Continued refinement will take place in this area to document bridge information and make it available for decision making and program development.

The following Headquarters controlled materials were produced and used by districts throughout the Province (April through March):

Production (m^3)

	Ministry	Contract	Total	Usage	Unit Price
16 mm crush	22,503	241,752	264,255	393,843	$5.00/$m^3$
19 mm crush	163,473	576,305	739,778	1,005,349	$4.50/$m^3$
Asphalt mix	15,006	13,762	28,768	25,860	$80.00/$m^3$
690 mm Guardrail	nil	4,157	4,157	8,607	120.00/piece

Revenue generated to the end of March through the sale of these materials was $10,291,455, while production costs totalled $6,021,232. Usage exceeded production as existing stockpiles were drawn down. Thirty-five crush contracts were called to March, 1984, while twelve asphalt premix contracts were tendered this year from Victoria. More contracts are expected next year with the shutdown of Ministry plants.

A guardrail installation program from capital funds totalled $1,255,000. This was used to provide roadside barrier in high hazard areas.

A fencing program of $1,500,000 from capital funds was undertaken to upgrade an old fencing and add new fencing on Schedule II highways throughout the Province.

Bridge day labour programs funding was distributed based on age, size, and types of structures for a total of $3,846,000.

ROADSIDE DEVELOPMENT PROGRAM

The hydroseeding program totalled 4,642 hectares, of which 2,580 ha were seeded, 241 ha were mulched and 1,821 ha were refertilized.

All regions were involved with noxious weed control. Herbicides were used to sterilize 3,075 km of road shoulder and control 6,030 ha containing noxious weed infestations.

Landscape work was accomplished in the lower mainland involving screen planting of an industrial park which was viewed from the Trans Canada Highway near Chilliwack, seeding and planting of noise deflecting berms on Highway 97 south of Kelowna and grass sodding and irrigation along the Williams Lake Arterial. The Ministry also committed a cash grant to be paid in 1984 and amounting to $15,000 for the purchase of plant material to be planted by the City of Williams Lake within the Williams Lake arterial right-of-way. Other grants amounting to a total of $14,360 were paid to Lumby and District Chamber of Commerce, District of Mission and the City of Kelowna for plantings along arterial highways. Design work began for the landscaping of the McKenzie Avenue Extension through Saanich. The sum of $502,510 was spent on the maintenance of landscape areas of which $205,000 was paid to private landscape maintenance contractors.

Rest area development again centred around upgrading of existing facilities and work was done at approximately 18 sites throughout the Province. The major items undertaken included concrete walks and other site works at Mount Terry Fox rest area on Highway 16 near Tete Jaune Cache and Bradner and Cole Road rest areas on the Trans Canada Highway near Abbotsford. Other improvements ranged from general refurbishing to the provision of water supplies.

CENTRELINE AND PAVEMENT MARKING

The 1982 road marking season was extremely busy with an increased workload of 20% to cover the extensive paving program and new construction, in addition to the usual annual repaint activities.

In the lower mainland several paving contracts in areas of heavy traffic and involving complex markings kept the Region 1 crew busy.

Repaving work throughout much of the interior of the Province took up a good portion of time for four line painting crews. A new paint truck, with several innovations and improvements over existing units, boosted productivity noticeably for the crew in the Kootenay Region.

Several special trips were also scheduled this year to attend to line markings in Bella Coola and the Queen Charlotte Islands.

The less heavy paving program on Vancouver Island allowed the Island crew to attend to a number of side roads that had not been painted for several years.

The activities of the thermoplastic and reflector crews were concentrated in the high density traffic areas in the lower mainland and on Vancouver Island.

Overall, a very successful program was completed as a result of generally favourable weather and good production.

The following summarizes in detail the quantity of work completed:

	1983-84	1982-83
Painting		
Centreline, Edge and Lane Lines Painted	19,904 km	17,082 km
Prelining	2,476 km	1,514 km
Curb Painting	23,696 lm	9,030 lm
Crosswalks Painted	85	54
Arrows Painted	823	835
Stop Lines Painted	331	294
Parking Stalls and Digits Painted	28	46
R.C.M.P. Surveillance Lines Painted	0	3
Traffic Islands Painted	839	723
Traffic Gores Painted	45	92
Painted Lines Eradicated	5,021 m	1,632 m
Thermoplastic		
Centreline, Edge and Lane Lines in Plastic	328 km	173 km
Plastic Laid	6,097 m^2	10,006 m^2
Arrows	536	1,157
Crosswalks	376	431
Stop Lines	1,144	289
R.C.M.P. Surveillance Lines	59	31
Advance Markings	20	25
Catseyes and Reflective Road Markings		
Catseye Rubber Inserts	354	2,228
Reflective Road Markings	41,925	24,658
Material Usage		
Yellow Centreline Paint	694,625 L	602,168 L
White Centreline Paint	286,315 L	225,426 L
Glass Bead	522,489 kg	468,479 kg
Yellow Thermoplastic	0	47,714 kg
White Thermoplastic	137,525 kg	153,125 kg
Yellow Plastix	2 m^2	28 m^2
White Plastix	2 m^2	50 m^2

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS, 1983/84

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
100	Permanent Hand Patch	94,359.7	11,368.5 cu metres	245.47	2,790,723
101	Machine Patch	60,334.9	66,735.3 cu metres	107.50	7,174,614
102	Surface Treatment	2,215	33,088.9 1000s sq metres	6.86	227,113
103	Crack Sealing	21,681.1	2,673.1 lane km	222.09	593,682
104	Pavement Burning	0	0 lane km	0	0
105	Temporary Hand Patch	64,961.5	6,234.8 cu metres	334.94	2,088,345
106	Skin Hand Patch	9,279.4	757.5 cu metres	337.68	255,793
111	Grading	151,683.4	698,253.4 pass km	13.48	9,417,282
112	Dust/Calcium	4,085	2,692.1 km	765.86	2,061,773
113	Regravel Roads	106,182.7	599,598.2 cu metres	8.92	5,353,246
114	Dust/Lignosulphonate	2,815.4	1,321.2 km	519.46	686,313
115	Dust/Oils	1,890.8	927.5 km	593.22	550,216
120	Regravel Shoulders	57,302	211,054.3 cu metres	11.70	2,470,295
121	Grade Shoulders	13,320	41,763.6 pass km	15.01	627,051
122	Sundry Shoulder Maint.	6,284.2	28,909.8 cu metres	10.87	314,443
123	Curb Maintenance	2,804	25,797.8 metres	2.88	74,553
130	Road Base Repair	48,888.5	173,029.5 cu metres	11.67	2,020,814
131	Rail Crossings	2,380.7	2,364.7 man-hours	63.60	150,416
139	Other Surface	7,594.1	7,636.1 man-hours	43.55	332,593
200	Ditch Clean	130,198.9	1,557,621.1 metres	4.20	6,551,879
201	Grader Ditch	3,196.2	3,801.5 km	43.22	164,331
202	Culvert Maintenance	34,768.4	35,102.7 culverts	24.75	868,805
203	Catch Basins	6,581.6	12,765.0 catch basins	14.32	182,884
204	Culvert Replace	17,377.8	1,990.0 culverts	472.56	940,413
209	Other Drainage	22,136.1	22,159.1 man-hours	27.83	616,775
220	Area Mowing	10,582	5,263.4 hectares	73.29	385,756
221	Hand Brushing	85,947.7	86,080.2 man-hours	23.25	2,001,770
222	Machine Brushing	13,901.9	27,748.5 pass km	61.25	1,699,784
223	Swath Mowing	24,622.6	67,964.5 pass km	14.74	1,002,116
230	Gardening	27,409.8	27,409.8 man-hours	25.68	704,059
231	Shoulder Sterile	3,655	3,077.7 shoulder km	41.24	126,929
232	R/W Seeding	7,675.7	2,848.5 hectares	356.45	1,015,353
233	Refertilizing	3,443	2,947.0 hectares	106.93	315,137
234	Hydroseeder Mulching	1,924.5	266.7 hectares	907.66	242,074
235	Weed Control	11,927.5	6,123.8 hectares	62.88	385,104
239	Other Vegetation	5,207	5,207.0 man-hours	26.45	137,743
250	Roadside Litter	36,485.6	101,797.5 shoulder km	7.25	738,221
251	Barrels & Areas	40,825	162,434.5 barrels	6.71	1,090,141
252	Appliance Maint.	8,943.3	41,455.2 appliances	7.75	321,361
253	Rock & Debris	26,086.8	26,081.8 man-hours	24.72	644,954
254	Road Surface Clean	17,248.4	38,766.1 pass km	17.58	681,685
255	Rock Scaling	2,735.2	2,735.2 man-hours	52.49	143,575
256	Hand Surface Clean	8,253.3	8,253.3 man-hours	18.63	153,765
257	Street Surface Clean	14,372.8	40,126.2 pass km	14.86	596,446
259	Other Debris	6,959.5	6,959.5 man-hours	30.36	211,295
300	Truck Plow	94,094.3	2,549,831.3 plow km	1.35	3,457,990
301	Sand	171,195.1	432,994.1 cu metres	25.67	11,115,555
302	Chemical	23,558.3	38,117.0 cu metres	115.67	4,409,332

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS, 1983-84 - Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
303	Patrol - Winter	169,838.2	4,348,438.6 km	1.08	4,697,484
304	Grader Plow	39,695.6	327,423.0 plow km	7.15	2,342,384
305	Ice Blading	20,127.1	155,939.6 plow km	7.16	1,117,585
306	Misc. Snow Clearing	19,056.2	19,059.2 man-hours	44.34	845,114
307	Drainage Thawing	31,650.3	31,781.8 man-hours	28.35	901,028
308	Stockpile Salt	3,334	7,368.1 tonnes	15.15	111,679
309	Snowfences	1,572.1	12,210.0 metres	6.31	77,052
310	Plowboards	1,005	1,971.5 p boards	25.92	51,113
311	Grader Wing	19,152.7	139,580.1 plow km	7.83	1,093,068
312	Snow Blowing	987.1	987.1 man-hours	42.29	41,746
313	Winter Standby	41,201.5	41,131.4 man-hours	13.13	540,249
319	Other Winter	30,899.7	30,899.7 man-hours	27.20	840,662
400	Signs	116,807.2	190,375.3 posts	18.82	3,584,159
404	Posts (Yard)	6,509	22,141.0 posts	5.26	116,494
405	Sign Fabrication	3,682.3	3,682.3 man-hours	17.97	66,207
430	Pavement Marking	8,136.2	63,544.3 sq metres	3.99	253,944
431	Road Stud Install	389.8	1,400.0 studs	11.72	16,419
432	Line Paint	34,557.9	19,996.0 pass km	154.77	3,094,798
433	Reflector Inst/Replace	3,438	54,429.0 no rflrs	3.50	190,685
434	Curb Painting	485.1	70,559.3 metres	.23	16,675
435	Mark Eradication	1,434.6	5,133.8 sq metres	5.47	28,094
436	Prelining	10,081.4	2,488.2 pass km	64.91	161,517
437	Plastic Line (Auto)	1,376.2	328.1 pass km	523.56	171,783
438	Thermoplastic (Other)	1,344	6,345.8 sq metres	12.98	83,430
439	Other Sign & Mark	25,128	25,133.0 man-hours	23.42	588,821
450	Signal Maintenance	9,911	1,719.0 intersec	228.87	393,428
451	Signal Repair	11,511.5	2,330.0 intersec	150.70	351,140
452	Electrical Patrol	2,499.8	48,802.0 km	1.08	52,758
453	Overhead Message Signs	1,866.5	1,876.5 no. signs	24.38	45,757
459	Other	645.6	645.6 man-hours	24.84	16,042
460	Lighting Maintenance	8,795.3	10,328.0 no poles	27.51	284,175
461	Lighting Repairs	13,916.2	6,557.5 no poles	99.01	649,273
465	Other Lighting	1,280.5	1,280.5 man-hours	36.72	47,032
466	Generator Maintenance	1,413.6	134.0 generators	352.75	47,289
467	Generator Repair	2,120.7	333.0 generators	169.35	56,395
469	Other Generators	31	31.0 man-hours	85.22	2,642
470	Service Equipment Maint.	1,704.7	789.0 units	56.42	44,516
471	Service Equipment Repair	915.5	152.5 units	169.93	25,915
475	Control Device Repair	4,306.4	910.6 devices	102.39	93,242
476	Control Device Mfg.	400.5	400.5 man-hours	25.96	10,400
479	Other	813.1	813.1 man-hours	24.59	19,995
500	Bridge Cleaning	21,829.9	21,835.9 man-hours	20.93	457,216
501	Bridge Rail Repair	17,317.5	18,581.5 metres	30.25	562,155
502	Bridge Steel Paint	7,458.8	12,156.8 litres	37.85	460,173
503	Sand Blasting	12,994.7	12,994.7 man-hours	41.86	543,964
504	Water Blasting	372.3	372.3 man-hours	34.34	12,786
505	Concrete Deck Repair	6,700.5	6,700.5 man-hours	29.85	198,677
506	Timber Deck Repair	36,223.1	36,173.1 man-hours	35.63	1,289,203

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS, 1983-84 - Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
507	Bridge Inspection	9,579.1	9,579.1 man-hours	25.32	242,567
508	Bailey Stk. Handling	1,339.9	1,493.6 no. panels	29.18	43,596
509	Bailey Deck Repair	1,834	1,846.0 man-hours	43.34	80,017
510	Tunnel Maintenance	5,532.9	5,532.9 man-hours	30.69	169,838
511	Perm. Structure Repair	13,415	13,415.0 man-hours	41.59	557,994
512	Timber Structure Repair	31,415.3	31,415.3 man-hours	39.71	1,247,715
513	Deck Linseed Oiling	2,955.3	104,434.4 sq metres	.73	76,401
514	Debris/Channel	7,607.9	7,607.0 man-hours	32.18	244,897
515	Building Maintenance	15,559.3	15,559.3 man-hours	29.30	456,011
516	Misc. Carpentry	23,508.7	23,508.7 man-hours	21.41	503,394
517	Concrete Overlay	8,603.5	25,394.0 sq metres	10.46	265,720
518	Scarifying	862.5	25,394.0 sq metres	2.11	53,735
519	Hand Painting	4,453.6	4,453.6 man-hours	19.44	86,594
520	Conc. Guardrail Maint.	17,897.4	64,517.7 no. pieces	8.05	519,512
521	Fence Repair	4,728.9	112,181.6 metres	1.48	166,757
522	Cattleguard Repair	3,293.3	424.5 cattleguards	297.10	126,120
523	Steel & Timber Guardrail	1,767.2	12,791.3 metres	3.75	48,033
524	Special Fencing	1,789	1,789.0 man-hours	56.11	100,393
528	Plumbing	2,674	2,674.0 man-hours	24.64	65,906
529	Other Str. Maint.	23,703.4	23,703.4 man-hours	27.11	642,763
560	Screen & Stockpile	31,762.2	478,689.1 cu metres	10.46	5,008,441
561	Pit Prep. & Cleanup	16,926.3	17,064.3 man-hours	85.19	1,453,753
562	Crush (38, 76 mm)	614	35,190.5 tonnes	1.18	41,678
563	Crush (19 mm)	6,983.5	277,170.9 tonnes	1.38	385,184
564	Crush (13, 16 mm)	939.2	40,506.0 tonnes	1.60	64,874
565	Asphalt Mix	3,875.6	15,005.3 cu metres	47.99	718,666
566	Quarrying	23	49,480.0 cu metres	.17	8,617
567	Grade Premix	60.4	413.0 cu metres	34.70	14,333
568	Gravel Stockpiling	6,253.4	60,585.1 cu metres	6.64	402,481
569	Other Materials	6,703.7	6,731.2 man-hours	164.07	1,104,452
570	Ferry Operation	967.5	1,013.5 man-hours	94.52	95,799
571	Ferry Maintenance	2,823.4	2,823.4 man-hours	41.73	117,821
572	Dock Maintenance	29,622.5	29,622.5 man-hours	63.12	1,870,020
579	Other Ferry & Dock	7,851.6	7,851.6 man-hours	42.13	330,837
580	Equipment Service	68,157.4	28,851.1 no. units	36.12	1,078,359
581	Equipment Repair	23,298.2	4,934.9 no. units	106.18	524,016
582	Mechanical Travel	17,647.9	5,042.9 no. units	54.26	273,674
583	Fueling	10,321.7	6,596.0 no. units	37.46	247,126
584	Minor P.M.	10,672.4	5,894.3	23.55	138,849
588	Equipment Rental	.0	12,988.3 no. units	616.51	8,007,440
590	Radio Repair	12	4.0	166.50	666
591	Radio Install	10	1.0	185	185
592	Repeater System		1.0	2,516	2,516
600	Supervision	574,043.8	573,918.4 man-hours	17.72	10,173,378
601	Safety Program	40,033	40,033.0 man-hours	16.78	672,051
602	Vacation	803,153.9	803,192.4 man-hours	12.77	10,262,640
603	Sick Leave	210,049.9	210,049.9 man-hours	12.81	2,691,445
604	W.C.B.	21,990.7	21,990.7 man-hours	13.05	286,992

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS, 1983-84 - Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
605	Special Leave	38,434.5	38,434.5 man-hours	13.27	510,374
606	Stand-by	18,241.4	18,244.4 man-hours	13.60	248,305
609	Equipment Hauling	45,331.8	46,955.8 man-hours	53.21	2,498,586
610	Light Duties	2,498.2	2,498.2 man-hours	12.50	31,250
611	Travel (4 hr. +)	21,606.9	21,610.9 man-hours	88.19	1,905,978
612	Traffic Patrol	94,187.4	94,398.9 man-hours	19.77	1,867,054
613	Yard Maintenance	110,754.2	110,764.8 man-hours	18.02	1,996,386
614	Stock Control	125,436	125,465.5 man-hours	26.14	3,280,182
615	Camp Operation	23,366.3	46,645.4 meals	15.00	699,968
616	Equipment Training	36,782.8	36,797.3 man-hours	18.16	668,478
617	Other Training	12,696.7	12,696.7 man-hours	16.47	209,217
618	Tending	69,486.8	69,795.3 man-hours	18.28	1,276,527
619	Other Overhead	16,220.1	16,219.1 man-hours	92.09	1,493,775
651	Inquiries	14,354.2	14,324.2 man-hours	15.48	221,755
653	Draft & Calcu.	103,497.6	103,533.6 man-hours	14.84	1,537,400
654	Maint. Man. Office	64,506	64,500.0 man-hours	14.45	932,151
655	Maint. Man. Field	21,089.6	21,089.6 man-hours	18.06	380,963
656	Permits & Land Ref.	25,816.5	25,816.5 permits	15.40	397,619
658	Sub-divisions	54,126.1	54,126.1 sd & luc	14.91	807,247
660	Survey Projects	122,238.5	113,356.0 man-hours	16.60	1,882,348
661	Avalanche Maint.	13,752.9	13,752.9 man-hours	25.69	353,369
666	District Admin.	330,507.1	330,816.1 man-hours	16.78	5,551,510
668	Surveying Other	97,509.1	97,509.1 man-hours	15.26	1,488,549
670	Secretarial	185,090.2	185,104.2 man-hours	13.68	2,533,215
671	General Accounting	42,468.6	317,262.8 1000's $mthly	1.71	544,142
672	Payroll & Personnel	92,776.9	454,336.1 100's mhs	2.60	1,182,214
673	Accounts Payable	75,522.4	95,043.4 no. vouchers	10.10	960,392
674	Perm. & S.D. Typing	25,924.1	25,933.1 man-hours	12.90	334,700
675	Termin/Data Entry	15,875.1	1,125,194.9 no. cards pro	.18	206,394
679	Other	12,932.4	12,932.4 man-hours	20.00	258,777
700	Clearing & Grubbing	44,072.4	1,513.5 hectares	2,837.09	4,293,945
701	Rock Blasting	3,035.5	97,030.6 cu metres	15.91	1,544,481
702	Road Bed Construction	94,968.6	21,015.7 km	1,231.37	25,878,124
703	Road Widening	58,154	2,398.9 km	2,988.22	7,168,456
704	Shoulder Widening	24,247.8	1,279.6 km	1,582.17	2,024,550
705	Ditch Construction	25,602.1	164,869.0 metres	22.95	3,784,380
706	Culvert Installation	45,390.1	50,487.0 metres	99.94	5,046,066
707	Multi-Plate	13,813.8	1,081.4 metres	1,035.52	1,119,815
708	Machine Paving	17,784.4	330,322.7 tonnes	40.25	13,296,507
709	Road/Pulvi-Mix	4,436.2	172.0 km	2,841.56	488,749
710	Guardrail Installation	18,167.6	13,847.5 no. pieces	122.89	1,701,807
711	Seal Coating	19,527.1	583.3 km	3,608.14	2,104,633
712	R/W Landscape	3,129.1	239.4 hectares	2,501.98	598,976
713	R/W Fencing	21,907.8	275,674.0 metres	6.09	1,680,739
714	Rest Area Develop.	10,616.7	10,616.7 man-hours	40.25	427,326
715	Retaining Wall	2,605.7	3,717.7 sq metres	134.31	499,338
716	Rip Rap	8,675.3	162,389.2 cu metres	12.56	2,040,352
717	Curb & Gutter	3,320.4	10,517.9 metres	13.90	146,218
718	Manhole Installation	1,112.3	88.0 number	1,219.95	107,356

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS, 1983-84 - Continued

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
719	Cattleguards	1,746	103.0 number	1,737.52	178,965
720	Chain Link Fence	524.4	2,556.4 metres	34.13	87,274
721	Yard Betterments	6,199.5	5,817.5 man-hours	42.16	245,282
722	Building Construction	11,242.1	11,242.1 man-hours	40.84	459,183
723	Dock Construction	1,405.8	1,405.8 man-hours	164.21	230,854
724	Bridge Construction	40,846.3	40,854.3 man-hours	65.98	2,695,663
725	Rest Area Application	131.8	57.5 number	56.06	3,224
726	Electrical Construction	34,384.9	34,406.9 man-hours	46.05	1,584,777
727	Gravelling	107,299.4	2,727,698.2 cu metres	7.71	21,041,223
728	Asphalt Curb	1,985.5	8,945.9 metres	8.67	77,629
729	Traffic Islands	804	3,996.4 sq metres	23.45	93,729
730	Shoulder Paving	1,614	11,748.7 tonnes	38.43	451,619
731	Shoulder Stabilization	2,137.7	43.1 shoulder km	3,767.09	162,362
732	Shoulder Surface Treat.	583.6	32.5 shoulder km	2,101.90	68,312
733	Rock Drilling	3,035.9	159,566.5 metres	14.63	2,335,330
734	Slope Surface	3,835	3,397.0 sq metres	71.45	242,724
735	Gravel Treatment	734.8	22.3 km	4,913.18	109,564
736	46 cm G/R Fab.	14	28.0	11.35	318
738	Road Stabilization	746.9	90.4 km	1,325.11	119,790
740	Bridge Deck Construction	13,670.9	13,670.9 man-hours	66.68	911,706
741	Bailey Bridge Const.	18,809	18,809.0 man-hours	34.98	658,030
799	Other Projects	40,023.6	40,099.6 man-hours	81.10	3,252,283
810	Benkleman Beam	435.1	115.0 number	89.27	10,267
850	Special	2,625.2	323.8	145.18	47,011
851	Special	852.9	852.9	16.87	14,392
852	Special	7,472.3	7,472.3	16.71	124,906
853	Special	1,123.9	1,119.9	17.08	19,136
854	Special	441.7	441.7	16.48	7,280
855	Special	2,407.1	2.2	19,127.72	42,081
856	Special	253.6	7.3	1,236.98	9,030
857	Special	1,811.8	2.6	12,036.53	31,295
859	Special	4,842.9	10.4	7,868.26	81,830
861	Special	2,663.2	2,663.2	17.41	46,375
862	Special	312	312.0	17.75	5,541
863	Special	3,955.6	7.1	9,727.60	69,066
866	Special	626	626.0	17.94	11,233
867	Special	286.5	286.5	17.96	5,148
868	Special	269.5	269.5	18.58	5,008
870	Special	81.5	81.5	21.60	1,761
876	Special	7.5	7.5	18.80	141
900	Flood Control	67,359.7	67,230.2 man-hours	70.44	4,735,957
901	Slide Removal	25,944.1	26,075.3 man-hours	50.18	1,308,614
902	Snow Slides	1,860.5	1,860.5 man-hours	44.03	81,922
903	Winter Repair	11,621.5	11,677.0 man-hours	53.88	629,213
904	Island Maintenance	6,113.5	6,113.5 man-hours	27.34	167,156
909	Other E.O.M.	10,807.4	10,814.4 man-hours	194.91	2,107,843
996	Material Write-off	.0	191,156.1 no. $	1.00	191,159
998	Stock Transfer	.0	158.0 no. $	15,961.30	2,521,886
999	District Overhead	.0	110,900.5 no. $	53.27	5,908,546

ROAD FEATURE INVENTORY
SUMMER CLASSIFICATIONS - DISTRICT TOTALS OF ALL CLASSES

Feature	Measure	Provincial Total	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6
SURFACE TYPE	Lane							
Hot Mix	km	27,942.8	4,315.4	5,668.4	4,249	6,695.6	2,355.9	4,658.5
Cold Mix		9,804.1	597.5	3,930.5	2,685.5	341.9	174.5	2,065.2
Concrete		49	46.3		1.8			.9
Treated		1,097.4		129.6	577.5	44.2	185.7	160.4
Gravel		41,974.3	998.3	10,282.5	4,106.8	18,489.5	5,134.5	2,962.7
Dirt		6,106.3	22.1	1,779.9	748.6	3,202.7	292.7	60.3
Other		1,327.2	175.9	238.8	574.7	293.3	41.1	3.4
TOTAL		88,301.1	6,155.5	22,038.7	12,943.9	29,067.2	8,184.4	9,911.4
TOTAL	Road km	44,748.9	2,724.5	11,436.8	6,940	14,650.7	4,168.5	4,830.4
PROFILE	Lane							
4-Lane Dvd.	km	1,185.4	942.5	80.3		15.5		147.1
4-Lane Undvd.		1,808.9	599.3	433.2	35.2	251	40.4	449.8
2-Lane		81,106.1	4,325.2	20,110.3	11,720	27,967.6	7,892.1	9,090.9
1-Lane		2,937	108.1	1,208	645.6	585.6	203.3	206.4
Other		1,263.7	180.4	206.9	543.1	267.5	48.6	17.2
TOTAL		88,301.1	6,155.5	22,038.7	12,943.9	29,067.2	8,184.4	9,911.4
SHOULDERS	km							
-1 m Paved		3,829.8	753.4	361	623.6	959.3	435.6	696.9
-1 m Treated		615.9	17.5	105.5	47.8	35.6	409	.5
-1 m Gravel		15,210.3	1,422.5	4,057.3	3,627	1,518.9	757.7	3,826.9
+1 m Paved		4,955.9	1,126	732.1	1,177.5	1,168.8	175.5	576
+1 m Treated		3,570.8	343.5	1,234.8	603.8	1,052.6	268.2	67.9
+1 m Gravel		13,257.5	1,180.4	3,680.2	2,542.9	2,888.5	1,074.8	1,890.7
DITCHES	km	48,912.1	2,516.2	9,078	5,439.5	19,995.1	5,931.1	5,952.2
CULVERTS	Each							
Entrance		65,952	6,928	10,035	4,908	18,902	3,019	22,160
Road Way		85,490	6,259	15,598	13,513	24,044	9,307	16,769
DUST SITES	Each	18,905	1,324	5,595	2,021	4,275	2,986	2,704
SIGNS	Each							
Structure		1,693	741	424	70	267	36	155
Post		92,866	20,026	19,701	14,374	16,558	6,509	15,698
GUARDRAIL	m							
Steel & Wood		72,187	11,711	30,224	6,142	7,050	12,310	4,750
No Post		830,706	285,217	122,826	204,936	62,727	42,692	112,308
REST AREAS	Each							
Lay By		953	143	203	328	164	100	15
Rest Stop		250	20	37	60	69	32	32
LITTER BARREL	Each	2,929	432	629	555	790	319	204
SPECIAL LANES	km	1,318.4	269.3	285.1	224.8	314.6	77.7	146.9
DELINEATORS	Each	36,997	12,187	6,095	5,147	4,104	3,681	5,783
MOWING								
Swath	km	51,073.2	3,521.9	10,970.1	7,875.4	16,216.8	4,141	8,348
Area	ha	795	647	25	16	35		72
RAILROAD X	Each	789	91	191	173	178	46	110
CATTLE GUARD	Each	1,633	8	891	261	409	61	3
TUNNELS AND SNOW SHEDS	km	62	20	13	14	5		10
CATCH BASINS	Each	9,722	4,116	1,323	984	1,719	167	1,413
CURB & GUTTER	m	1,069,159	265,765	251,743	149,597	184,340	44,638	173,076
MANHOLES	Each	1,731	791	350	53	291	40	206

REPORT OF THE DIRECTOR OF EQUIPMENT SERVICES

E.A. Lund, P. Eng.

EQUIPMENT SECTION

No additions were made to the Ministry fleet during the 1983/84 fiscal year and the garage crews were kept busy maintaining the existing fleet as replacement units were minimal due to the continuing government restraint program.

The Ministry again reviewed the need for heavy construction type equipment with the result that by year end only two crushers and one patch mix plant were retained in inventory, but not in use. The large Boeing Drum Mixer used by the Paving Branch was disposed of as well as two crushers and a small batch mix plant. Replacements obtained during the fiscal year were 18 graders, seven loaders, two excavators, 46 heavy trucks, 126 light trucks and no automobiles.

The Equipment Management Information System continues to be useful in managing the fleet and monitoring costs. Approximately $8,800,000 of equipment rental funds were unspent on replacement or maintenance and they were used to enhance the road maintenance account.

During the year 1,072,975 manhours were expended by the Branch, of which 59% were productive mechanic hours while the balance were supervision, support (stockkeeping) or overhead hours such as holidays and leaves.

The provincial average shop rate was $27.71 per mechanic hour.

Fuel consumption was:

Gasoline	15,454,000 litres
Diesel	15,463,000 litres
Oil	632,000 litres
Propane	267,000 litres

There were 272 requests for approval to hire transportation units and 403 requests for approval to hire construction equipment at other than standard rates.

The Branch in cooperation with the Purchasing Commission held eight public auctions at which time 532 pieces of used and surplus equipment were disposed of at six locations in the province.

The Langford Fabrication Shop custom fitted three tandem trucks to full Ministry standards and in addition 56 sets of front snowplow mounts, underbody snow plows and the necessary hydraulic systems were fabricated for installation by private industry. A new recycling program was started for underbody snowplows, front mount assemblies and dump boxes, initial indications are that considerable savings can be realized.

Fourteen of the recently developed twin-chain sanders were purchased through public tender for the first time this year.

Other development projects during the year involved the installation of two "Computrol" fuel recording systems for evaluation. They are installed in the Cloverdale and Pouce Coupe Ministry yards. A special brake conversion program was carried out with the Ford Motor Company on 86 Model LN8000 4-ton dump trucks to eliminate a vacuum boost system and install a newly designed hydraulic power boost.

An inventory of the active Ministry fleet as of March 31, 1984 by classification follows:

INVENTORY OF MINISTRY OF TRANSPORTATION & HIGHWAYS
EQUIPMENT FLEET AS OF MARCH 31, 1984

Class		Description	Active Units
A.	11XX	Cars	240
B.	1200	Plows	1847
C.	15XX	Compressors	111
D.	1611-1615	Fork Lifts	78
	1621-1625	Cranes	6
	1630	Bridge Inspection Units	1
	2100	Excavators	37
E.	18XX	Light Plants	52
F.	001X	Truck Cranes	188
	0020-0021	Personnel Lifts	43
	0030	Wreckers	9
	0033	Electrical Signs	116
	0070	Garbage Packer	45
G.	2010	Self Propelled Brooms (Pickup)	19
	2020	Towed Brooms	24
	2015	Self Propelled Brooms (Non-pickup)	28
	2030	Catch Basin Cleaner	1
H.	94XX	Transportation Light Trucks	1,744
	9430	Emergency Transportation Vehicle	27

INVENTORY OF MINISTRY OF TRANSPORTATION & HIGHWAYS
EQUIPMENT FLEET AS OF MARCH 31, 1984 - Continued

Class		Description	Active Units
J.	25XX	Asphalt and Paving Equipment	102
	0050	Pavement Burners	3
	0060	Distributor	39
K.	28XX	Crushing and Screening Equipment	83
L.	30XX	Graders	323
	3100	Towed Graders	3
M.	3510	Sanders	1,092
N.	40XX	Rubber Tired Tractors	197
O.	0001	Hydroseeder	5
	0002	Centreline Marker	14
	0003	Tunnel Washer	1
	3550	Snow Blower (quick slip on)	31
	0040	Water Tank	141
	0080	Auger Drill	19
	0081	Diamond Drill	7
	5600	Self-Propelled Horizontal Drill	1
	5700	All-Terrain Vehicle	2
	5800	Air Track Drill	2
	6001	Skidoo	4
	6002	Snowmobile	9
	6003	Motorcycle	4
	6025	Road Planer	2
	6090	Misc. Small "O" Equipment	77
	6091	Small/Medium "O" Equipment	6
	6092	Medium "O" Equipment	42
	6093	Medium/Large "O" Equipment	6
	6094	Large "O" Equipment	19
P.	46XX	Roller	111
	4700	Hand Tampers	182
Q.	50XX	Crawler Tractors	51
R.	44XX	Loaders and Backhoes	246
S.	7000-9320	Heavy Trucks	1,478
T.	6500 & 6501	Lowbed Highboy Trailers	33
	6502	Tilt and Flatdeck Trailers	42
	6503	Utility Trailers	122
	6510-6512	Unheated Storage Trailers	53
	6520-6522	Kitchen, Washcar Trailers	41
	6523-6525	Office, Sleeper Trailers	160
	6526-6528	Assembly Trailers	35
	6530	Miscellaneous Trailers	1
U.	6250	Licensed Non-rental	32
V.	6200	Shop Equipment	1,945
W.	3302-3303	Rock Breakers, Brush Saws	134
Z.	3300	Brush Cutters	18
	3301	Chipper	8

TECHNICAL STORES SECTION

Supplied all the Ministry's survey, laboratory and drafting needs for new equipment, repairs and expendables, as well as the inventory and distribution of cameras, audio visual and avalanche equipment.

New survey equipment purchased and supplied included 15 theodolites, 20 surveyors levels and 23 electronic distance measuring devices.

Repairs included 306 survey instruments, 89 major pieces of lab equipment and 29 cameras.

The group also manufactured or refurbished eight marshall hammer bases, 18 pavement smoothness gauges, 10 lab ovens and 35 survey instruments. Outfitted 12 lab trailers and entered all survey instruments into the maintenance management system.

The inventory of survey instruments as of March 31, 1984 was:

414 theodolites and transits
412 surveyor levels
88 electronic distance measuring devices

LANGFORD SIGN SHOP SECTION

The Langford Sign Shop produced all the Ministry's road sign requirements in 1983-84 in addition to Highway signs for the Ministry of Lands, Parks & Housing; Parks Branch.

The shop produced 16,361 square meters or 39,255 individual signs, plus 14,042 roadside reflective delineators.

There was 1,176 manhours lost due to work stoppage as a result of B.C.G.E.U. strike. The actual hours used in the sign shop operation this year totalled 26,455.

With the purchase of a computerized signmaking machine; sign orders that were accumulated for up to four months for silk screening in volume, can now be produced and shipped immediately, i.e. street names.

With the closure of the Parks Branch Sign Shop (Langford Workshop) the Langford Ministry of Transportation and Highways Sign Shop acquired some of their equipment which will also help to expedite sign production in the coming year.

A new 10' 0" metal power shear was purchased for the Ministry of the Attorney General, who keeps the sign shop well supplied with steel sign blanks, which allows for uninterrupted production.

The sign shop has an average delivery time of one month, from receipt of sign order, and is striving to further improve this.

FERRIES

Service was provided on 35 routes under the jurisdiction of the Ministry. This was accomplished by a fleet consisting of 24 certified vessels, six reaction ferries, four cable ferries, five subsidized ferries and three miscellaneous ferries. There are also two tugboats and four barges for emergency purposes.

The fleet carried 3,889,936 vehicles and 8,623,196 passengers (including drivers) during the year. The totals were 3,798,560 and 8,503,537 the previous fiscal year.

Revenue

Alert Bay	$315,673.80
Comox-Powell River	1,697,379.41
Cortes Island	115,379.00
Denman Island	299,942.40
Gabriola Island	643,021.98
Hornby Island	112,518.50
Quadra Island	475,660.90
Queen Charlotte Islands	150,423.80
Texada Island	210,961.85
Thetis Island	129,654.77
Woodfibre	7,979.00
TOTAL	$ 4,158,595.41

RECORD OF FERRY TRAFFIC, Fiscal Year 1983/84

ROUTE NAME	LEG TRIPS	PASSENGERS NOT DRIVERS	INCLUDING DRIVERS	AUTOS	TRUCKS	DANGEROUS CARGO	LOGGING TRUCKS	RECREATION VEHICLES 6 m	RECREATION VEHICLES 6 m	TRAILERS /SEMIS	MOTOR BUSES	MOTOR-CYCLES	OTHER	TOTAL VEHICLES
Albion-Fort Langley	62,523	926,348	1,988,157	995,843	29,111		14	1,550	1,395	8,781	336	24,685	94	1,061,809
Alert Bay	13,866	168,145	237,967	63,407	3,360	121	3	866	530	1,038	98	217	182	69,822
Arrow Lake (Upper)	14,062	127,967	248,834	93,121	7,847	329	2,860	5,092	4,975	3,342	102	1,570	1,629	120,867
Arrow Park	16,448	19,202	35,319	13,226	956	3	206	444	669	378	10	78	147	16,117
Barkley Sound (Subsidy)	434	12,771	12,771											
Barnston Island	68,102	92,087	183,210	54,750	28,918	174		1,419	53	2,719	1,079	1,403	608	91,123
Big Bar	2,536	2,400	4,219	33	1,144	69	1	24	1	26		98	423	1,819
Boston Bar	135,840	176,975	273,246	46,294	47,229			35		12		2,572	129	96,271
Castlegar	81,956	427,955	897,986	297,717	163,980			1,405	279	1,842	1,335	3,235	238	470,031
Clayhurst	25,640	26,054	50,449	20,507	2,371	13		177	116	383	24	175	629	24,395
Comox-Powell River	2,819	145,877	223,458	65,995	1,655	9	2	4,526	1,436	2,123	143	1,561	131	77,581
Cortes Island	4,152	38,702	71,137	28,761	1,369	38	2	914	298	547	235	254	17	32,435
Denman Island	14,630	254,403	458,631	188,619	5,657	212	247	5,673	1,466	367	223	1,694	70	204,228
Dodge Cove (Subsidy)	338	3,081	3,280	199										199
Fort Nelson Hover	6,632	26	6,959	5,112	822		1	186	78	547	13	25	149	6,933
Francois Lake	16,998	160,915	296,548	112,242	10,357	1,276	4,440	1,354	1,474	3,580	209	380	321	135,633
Gabriola Island	11,985	401,467	693,855	276,708	6,993	325	5	858	844	1,839	117	4,256	443	292,388
Glade	76,184	87,594	178,253	86,636	932	22		132	14	308	1,761	705	149	90,659
Harrop	82,973	131,227	288,653	146,711	2,821	121	112	1,446	494	435	1,850	1,161	2,275	157,426
Hornby Island	10,047	124,607	219,934	83,517	2,907	179	24	4,090	706	2,079	150	1,528	147	95,327
Kootenay Lake	8,826	193,037	350,207	84,911	47,864	5	167	5,497	4,784	10,820	334	2,685	103	157,170
Lasqueti Isl. (Subsidy)	1,476	25,505	25,505											
Little Fort	15,726	13,250	20,540	2,088	5,002	1	12	7	4	9	20	73	74	7,290
Lytton	25,020	61,906	93,321	9,357	19,690		1	46	11	181	1,385	369	375	31,415
Marguerite	19,768	20,744	35,958	4,378	10,093	74	6	304	25	196		95	43	15,214
McLure	15,926	16,652	32,021	6,199	6,816	6	1	509	137	841	71	508	281	15,369
Needles	28,088	201,000	325,546	101,637	5,715	278	581	6,434	4,882	1,459	448	1,896	1,216	124,546
Quadra Island	14,713	441,511	711,989	250,281	5,821	198	348	3,318	2,578	3,997	304	3,520	113	270,478
Queen Charlotte Isl.	6,686	69,158	133,158	57,144	4,269	12	3	713	314	1,032	214	197	102	64,000
Shuswap Lake (Subsidy)	300	1,010	1,920	167	435			33	14	134	6	7	114	910
Texada Island	6,791	103,216	183,535	73,241	2,620	181	217	1,511	291	680	81	1,336	161	80,319
Thetis Island	20,402	125,915	188,729	54,199	1,279	76	35	6,587	36	234	13	165	190	62,814
Usk	26,760	31,046	44,126	7,608	5,156				3	3	2	262	46	13,080
Woodfibre	4,769	101,507	103,775	528	1,065	174				364		12	125	2,268
TOTALS	843,416	4,733,260	8,623,196	3,231,136	434,254	3,896	9,288	55,150	27,907	50,296	10,563	56,722	10,724	3,889,936

FERRIES ROUTE USAGE 1983/84

ROUTE NAME	FUEL CONSUMED 1000's L	TOTAL MANHOURS	COST PER TRIP	VESSEL CAPACITY USED %
Albion-Fort Langley	479	89,466.2	29.80	76.5
Alert Bay	938	59,706.0	111.90	43.2
Arrow Lake (Upper)	918	59,236.5	103.35	25.8
Arrow Park	22	5,994.0	7.29	14.2
Barkley Sound (Subsidy)	*	*	2,386.72	*
Barnston Island	59	20,269.4	6.27	35.2
Big Bar	0	3,910.0	33.60	48.8
Boston Bar	0	22,569.0	2.19	87.3
Castlegar	40	13,880.8	2.82	24.3
Clayhurst	56	14,149.1	13.78	26.0
Comox-Powell River	3,911	183,408.2	1,761.87	25.6
Cortes Island	315	31,613.0	209.96	52.9
Denman Island	334	50,453.1	77.74	51.8
Dodge Cove (Subsidy)	*	*	46.77	*
Fort Nelson Hover	0	0	39.87	N/A
Francois Lake	645	57,999.7	82.19	27.2
Gabriola Island	1,014	85,073.0	163.79	36.3
Glade	30	9,768.3	1.83	15.6
Harrop	47	11,245.5	2.72	19.8
Hornby Island	231	37,608.0	83.44	53.9
Kootenay Lake	595	85,087.5	206.34	57.9
Lasqueti Island (Subsidy)	*	*	131.44	*
Little Fort	3	4,405.0	4.53	31.3
Lytton	0	11,711.5	6.24	88.6
Marguerite	1	4,964.0	4.41	52.7
McLure	3	2,913.3	3.92	65.6
Needles	277	47,866.0	39.56	17.5
Quadra Island	651	84,721.5	118.75	64.8
Queen Charlotte Islands	296	28,158.0	105.14	41.5
Shuswap Lake (Subsidy)	*	*	38.00	*
Texada Island	843	71,747.3	268.14	25.3
Thetis Island	453	41,235.5	43.93	34.8
Usk	7	6,980.0	4.28	29.0
Woodfibre	280	36,757.0	142.47	11.6
-Spare Route	3	4,415.0	N/A	N/A
-Courtenay District Office	N/A	20,277.8	N/A	N/A
..... TOTALS	12,451	1,207,589.2	N/A	N/A

* Subsidized operations - information not available.

COMMUNICATIONS SECTION

During 1983 all mountain-top radio repeater equipment in Regions 1 and 6 was replaced. 22 radio sites were involved, each site requiring an average of three new radios, a control shelf, and all the necessary auxiliary equipment. To improve radio coverage in these Regions, the radio repeaters serving Port Alberni, Squamish, and Texada Island were removed and new repeaters installed near Parksville, Lions Bay, and Whistler. The console at the George Massey Tunnel which controls the radio system in Regions 1 and 6 was replaced when the new control room was built.

Elsewhere in the Province improvements to the mobile radio system were made at Lytton, Elko, Nelson, Penticton, Oliver, and Armstrong. About 20 radio sites were converted from primary battery powering to solar energy. The Ministry now operates 130 mobile radio repeater sites throughout the Province of which 50 are powered by solar energy.

The Communications Division assisted the Senior Avalanche Coordinator to establish four remote weather stations in the mountains above the Squamish Highway. Two of these stations report through the GOES Weather Satellite. The other two report directly to Deas Tower (George Massey Tunnel) through Highways radio systems.

During the year 970 mobile radios, 240 portable radios, and 110 base stations were purchased. The Ministry is currently operating 4450 mobile radios, 1100 portable radios, 300 base stations, and 900 attached desk sets.

100 headset radios were purchased to provide hands-free communications between individuals up to 1/2 kilometre apart. Bridge survey crews, paint crews, and driver trainers and typical users of this type of equipment.

The Ministry provides satellite television to 11 remote camps in B.C. In 1983, 20 satellite TV receivers were added to these systems to increase the number of simultaneous channels available at each camp.

Our radio technicians must service mountain-top repeaters on a year-round basis and there is a risk of being delayed at these sites as a result of helicopter failure or a sudden worsening of weather conditions. With the assistance of the Public Service Commission, an alpine outdoor survival course has been developed to give our technicians the basic skills and psychological preparedness to survive such an ordeal. The course includes a four day stay on a mountain top in winter using Ministry-provided survival equipment.

REGIONAL REPORTS

REGION 1

(W.E. Mercer, P. Eng., Regional Director Highways, Burnaby)
North Vancouver, Gibsons, New Westminster
and Chilliwack Districts

NORTH VANCOUVER DISTRICT

Roads

Maintenance: On Wednesday afternoon, November 15, 1983, a debris torrent struck and seriously damaged a concrete bridge across Charles Creek on the Highway 99 to Squamish. Two upstream stringers were shattered, leaving three stringers intact. The same torrent also pushed two private bridges plus the B.C. Railway bridge into Howe Sound. All three were concrete box stringer bridges. Traffic delays were kept to a minimum as the damaged bridge could be used for single lane, alternating traffic. North Vancouver and New Westminster bridge crews were once again pressed into 24-hour service to erect a Bailey bridge to restore two way traffic, and this was done by Friday evening of the same week. Extensive saw-cutting was required to the bridge to isolate the dead-load factor from the residual undamaged section of bridge prior to allowing legal loads.

Intensive winter patrols were once again scheduled between Horseshoe Bay and Squamish. Two patrol vehicles were on the road, 24 hours a day, seven days per week, from October 1, 1983 to March 31, 1984.

Five weather stations, one low elevation manual, four high elevation remote, were in use throughout the winter. These provided an invaluable service to the District in monitoring the buildup of critical conditions. In turn, the District initiated effective precautionary measures as conditions deteriorated.

The District's patching activities were improved upon with the rental of a small paving machine for the patching season. Major gravelling projects were undertaken on the Squamish Valley, Lillooet Lake and Duffey Lake roads.

A sign improvement project was carried out on Highway 99 between Horseshoe Bay and Whistler.

Rock scaling operations continued to be highly active on Highway 99 between Horseshoe Bay and Squamish throughout most of the year.

Under the fencing program, District crews installed 1 100 metres of chain link fencing on the Upper Levels Highway.

Construction: Paving was completed at the following projects: Furry Creek four lane section, "M" Creek Bridge approaches, and patch paving contract, all on Highway 99; Trans Canada Highway 1 between Lynn Creek and Capilano Road; the Cheakamus Bridge approaches on the Squamish Valley Road; and on Bowen Island for three kilometres.

Road reconstruction took place over a one kilometre section of Highway 99 in Whistler, near Green Lake. Smaller improvement projects took place on the Pemberton Portage and Diamond Head roads.

The District contracted a shotcrete slope stabilization project on two areas near "M" Creek Bridge.

Guardrail projects were undertaken in two areas; 1 100 metres of median barrier displaced 18" no-post on the Upper Levels Highway in North Vancouver and 900 metres of 690 mm roadside barrier was installed on Highway 99 between Horseshoe Bay and Squamish.

A free right turn lane was added to Highway 1 at Westview Avenue in North Vancouver City.

Bridges

Several Bridge Branch projects were completed, with new bridges opening at Culliton Creek, north of Squamish; Upper 19 Mile Creek in Whistler; and at Cheakamus River on the Squamish Valley Road.

Modifications were undertaken to Bent 3 on Second Narrows Bridge including replacement of sliding expansion bearings and adjustments to the expansion joint.

The District dismantled twin Bailey bridges at Culliton Creek once the new bridge opened.

At Cheakamus River, District crews first relocated a 43 metre, double-double, Bailey with cranes to accommodate new bridge construction, then dismantled this Bailey when the new bridge was completed.

District crews installed a clear span standard widened Bailey at Birkenhead River near Pemberton. This replaced a narrower Bailey and timber approach bridge.

A project to strengthen Logger's Creek Bridge on Highway 99 was contracted by the District. This involved increasing the height and width of concrete dimensions on one pier and one bent on this structure.

Smaller projects included riprapping Magnesia Creek and blasting a deeper channel at Deeks Creek.

An erosion stabilization project was completed at Culliton Creek, utilizing rock from a nearby road improvement project.

Buildings

Facilities for the Highway Patrol were provided at Eagle Ridge in West Vancouver to accommodate supervision of the Eagle Ridge truck brake check during operating hours of B.C. Ferries at Horseshoe Bay.

Ferries

Normal operations of the Garibaldi II Ferry between Darrell Bay and Woodfibre continued until the commencement of the pulp labour dispute. The Ministry ceased operating this ferry on March 31, 1984.

GIBBONS DISTRICT

Roads

Maintenance: The maintenance program was carried out generally as planned and according to the annual budget. The winter was again mild with the resultant minimal requirement for winter activities. Severe flooding occurred during November in the Roberts Creek area. Extensive damage was done to the Sunshine Coast Highway and Lower Road resulting in road closures and the need for major repairs. Additional major programs were carried out in February and March involving ditching, gravelling, brushing and shouldering on the Sunshine Coast Highway and a number of side roads. Also a major patching program was undertaken on the Sunshine Coast Highway in the Madeira Park area during March.

Construction: The intersection of the Sunshine Coast Highway and Lower Road was reconstructed with the addition of left turn lanes. Malaspina, Centennial and Gillies Bay roads were paved for a total of 6.0 km. Henderson and Craig Roads were reconstructed for a total of 1.6 km. A shoulder widening program was undertaken on the Sunshine Coast Highway and the Port Mellon Highway. Ditching, gravelling, base repairs and paving were undertaken on various roads in the District under the Minor Betterment Program.

Bridges

Normal maintenance was carried out on all bridges in the District, in many cases utilizing the services of a crew from Dock District.

Hallowell Bridge 8118 was replaced with a new log stringer structure.

Port Mellon No. 3 Bridge 7340 was replaced with a new structure consisting of concrete abutments and pre-cast concrete box stringers.

NEW WESTMINSTER DISTRICT

Roads

Maintenance: Early in the year the District took over control of the Queensborough Bridge and the access roads to the bridge in the City of New Westminster. In a continuing District policy to pave shoulders, the District completed a total of 21 km under maintenance betterment projects on Scott Road, Westminster Highway and Lougheed Highway east of Albion. The District sign crew carried out an extensive upgrading of guide signs on Routes 99, 15 and 10. With a mild winter, crews completed a major hand brushing program throughout the District.

Construction: The intersection of Canada Way at Burris was widened with the addition of left turn channelization and bus bays. At Lougheed and Bell new raised channelization was added.

Reconstruction projects included Sunnyside Road in Anmore from East Road to Anmore, Glover Road from Trans Canada Highway to Rawlinson Crescent and the first phase of Pacific Highway widening for north and southbound truck lanes was started with the completion of piping in the ditch from 32nd Avenue to 24th Avenue.

Special construction projects included the installation of a box culvert on Route 13 at Salmon River and the increased parking area for the eastbound Port Mann Weighscale.

Paving: During the summer the eastbound onramp at the Willingdon Interchange was ground and repaved and the westbound offramp at the Deer Lake Interchange was recapped. Westminster Highway from No. 6 Road to No. 8 Road was recapped and shoulders paved. In March shoulder paving was carried out on Route 13 from Fraser Highway to "0" Avenue and on Fraser Highway from Whitehouse Corner east to 190 Street; a total combined distance of 32 km of shoulder being paved.

Bridges

Ladner Bridge was completely rebuilt with improvements made to the wing walls. At Canoe Pass Bridge the turntable and steel struts were replaced and rollers refurbished. The northbound railing on Pattullo Bridge was relocated to the outside of the curb to increase side clearance. Major repairs were completed on the pier protection to the south structure of Pitt River Bridge. At Blundell and Matthews Overpasses the bridge crew concreted the slopes under the structures. The bridge crew completed work on the new Deas Tower Communication Centre building.

Ferries

Albion: Traffic and passenger volumes were up 5% over last year. Heavy ice from mid December to January reduced service and at times both ferries were shut down. At the Albion terminal a chain link fence was added along the river edge and a chain link parking compound was added. A new dolphin bumper pad was added at the Fort Langley landing and the landing pontoon was filled with styrofoam. No major refit work was carried out during the year.

Barnston: Early in the year the tug was in for its annual refit at which time repairs were made to the wheelhouse. In March the barge was brought up to C.S.I. standards with the addition of four water tight bulk heads. The volume of traffic handled was up 10% over last year.

CHILLIWACK DISTRICT

Roads

Maintenance: District crews kept the roads throughout the area well maintained during the year. Along with the usual mowing and brushing crews continued their efforts on the continual cleaning and maintenance of ditches. Dust control was again achieved thru the use of calcium chloride.

The winter was generally milder than normal with less snowfall in the low-lying areas. As in 82/83, plowing and sanding were kept low but the milder temperature caused the use of more salt and patrolling. Pavement break-up was lessened mainly due to several newly paved surfaces.

Construction: Gravelling prior to paving by drum mix crew was carried out on Agate Bay Road 525, Barrier Lakes Road 697 and Barrier East Road 694. Various roads in Vavenby were widened and gravelled and then paved with cold mix. On Bridge Lake Road 24, the approaches were constructed for the new Lemieux Creek Bridge, and on Clearwater Valley Road 2514 the finish grade between and the approaches of Fight Creek Bridges 1 and 2 were done. Lac Le Jeune Road 2775 had three projects consisting of two realigned sections and one widening. Two of these were also paved. The Trans Canada Highway 1 was the major project with the widening of two sections from three to four lanes in preparation for a paving contract. Various other roads in the District were paved, gravelled, widened or had shoulders widenened.

Also, 14 cattleguards were installed, 31,046 metres of fence repaired or replaced, 302 pieces of guardrail and 64 metres of culvert installed, and 10.9 km of road stabilized.

Bridges

Routine maintenance was carried out on all bridges in the District and the Chu Chua River Bridge 6283 was replaced with a concrete box beam structure.

Ferries

Annual maintenance was carried out and new bridles and cables installed for the McLure and Little Fort ferries. A ramp was replaced at the McLure Ferry and it was temporarily removed from service for major repairs.

SALMON ARM DISTRICT

Roads

Maintenance: Routine maintenance was provided in the 1983/84 fiscal year with no major problems being experienced. Through the assistance of minor betterment funding, emphasis for spring and summer maintenance was directed towards regravelling roads, ditch cleaning, hand brushing and machine mowing.

The Sicamous flooding problem was abetted by the installation of a storm drainage system, installed and funded in co-operation with the Columbia-Shuswap Regional District.

The District also called six local contracts to aid in the completion of maintenance activities. These contracts covered areas of flagging, fencing, machine paving, and hazard tree removal.

Winter maintenance activities were generally routine with snowfall records just below average.

Subdivisions: Subdivisions were below average this year with 158 new lots approved and 3.9 km of new road being created. An incident directly related to subdivision approval was the occurrence of a rockfall at Bastion Mountain in Sunnybrae which destroyed a home and claimed the lives of two people.

Permits were normal with 368 permits issued to cover the installation and maintenance of private utilities and/or accesses.

Construction: Through day labour and project funding, various roads were reconstructed and paved. The major day labour projects included remedial works on the Mara Lake slide which is a continuing project and reconstruction and gravelling of many collector roads throughout the District. Included in these roads are the Skimikin Road, Squilax-Turtle Valley Road, Chase-Falkland Road, Samuelson Road, Kamloops-Shuswap Road, Barnhartvale Road and Squilax-Anglemont Road.

Paving projects provided 11.5 km of new pavement on the Chase-Falkland Road with 29.7 km of paving on the Squilax-Anglemont and Holding Roads. An additional 13.40 km was also completed on miscellaneous roads in the District.

Continued works were again administered for the installation of guardrail and fencing projects. 192 m of Type A guardrail was placed on the Trans Canada Highway 1 with 353 m placed on the Kamloops-Vernon Highway 97.

The fencing covered 16.22 m and was dispersed throughout the five foreman areas in the District.

Bridges

Normal bridge maintenance was carried out with special attention focused on Adams River Bridge.

Kaiser Bridge over the Salmon River was replaced with a combination steel and wood stringer bridge measuring 37.8 m total length.

VERNON DISTRICT

Roads

Maintenance: The district experienced only a few problem areas with spring floodings mostly local to the Vernon foreman area. The only major slide was on Finlaison Road where the whole road slid away necessitating a complete relocation of a two km route and construction and gravelling on this new route.

Most of the minor floodings were as a result of the higher than normal water table throughout the district. This phenomenon necessitated an increased ditching program and drainage works throughout the area.

A drier summer increased the need for dust abatement on all rural roads.

Construction: The district forces completed over 32 km of reconstruction and paving on various roads, the major projects being five km on Silver Star Road; 3.7 km on the Lumby-Mabel Lake Road; 5.4 km on the Pleasant Valley Road and 8.2 km on the Westside Road, which is now paved throughout.

The district regulatory function was about normal with the processing of 166 subdivision applications and issuing of 522 permits for works on Crown lands.

Construction and Reconstruction: Widening and drainage improvements were undertaken on Hemlock Valley and the first 5 km had final preparation done for paving. Crews also completed the base preparation for the paving of 1.8 km of Rockwell Drive, a fourth lane, 2.8 km in length was constructed and paved on Rhododendron Flats (S.T.P.H.), and blasting and realignment work was done to improve two corners just west of Sunday Summit on S.T.P.H. 3.

Crews gravelled and widened Yale Road along the Hope Airport in preparation for repaving. Morris Valley Road was reconstructed from the Lougheed Highway north for 1.8 km with 1.2 km of that being repaved. Work was begun on the realignment of Columbia Valley Highway at the marina. Reconstruction and paving of 0.85 km of Stave Lake Road was completed. Othello Road had minor realignment and widening done in preparation for paving. Various other roads had minor reconstruction done on them in preparation for paving.

Bituminous Surfacing: Extensive resurfacing was undertaken in the District during the year. District contracts had 1.2 km of new pavement on Rockwell Drive in addition to 0.6 km of recap, while Morris Valley Road was reconstructed and paved for a distance of 1.2 km. Stave Lake Road and Sylvester Roads, Mission area, were recapped 0.85 km and 0.7 km respectively. Contracts were also let for the recap of 4.9 km of Columbia Valley Highway, 4.4 km of Chilliwack Lake Road and new paving of 2.8 km of Chilliwack Lake Road. A district contract was also tendered for paving of 2.41 km on various roads in the Kawkawa Lake area. Several short sections of roads were paved in the Rosedale and Chilliwack Lake Road area by district contract.

District paving crews did extensive recapping of various short sections of road throughout the entire District in their attempt to prevent further deterioration of paved road.

Bridges

District bridge crews were again kept busy doing general maintenance and accident repairs. Reconstruction of Eagle Mill Bridge 6029, Morris Valley Bridge No. 1 8072, Weaver Creek Bridge No. 2 6040, saw the installation of three new concrete structures. Ryder Creek Bridge 8128 was reconstructed out of treated timbers.

Buildings

District bridge crews constructed a concrete salt shed and loader bay at Bulgar Pit, Hunter Creek. This replaces an old and deteriorating wooden structure.

Ferries

Regular upkeep and maintenance was performed on the Boston Bar Aerial Ferry.

Snow Removal

Below average snowfall gave crews throughout the District a relatively quiet winter.

Flooding

Unusually heavy rains in July caused extensive damage in some areas. The Trans Canada Highway between Rosedale and Hope was closed for approximately four days as crews worked to clear several slides. Hatzic Prairie was also hit hard as flood water damaged roads in the area.

Heavy rains and warm temperatures again caused severe damage on January 4, 1984. The Trans Canada Highway east of Rosedale was closed for approximately two days as creeks flooded bringing mud, rock and debris down onto the highway. Hunter Creek Bridge was very close to receiving major damage to it. The Lougheed Highway was limited to single lane traffic for approximately three days as crews worked to clear a major slide 15 km east of Agassiz. The Southern Trans Provincial Highway was closed due to a washout at Two Mile Creek Bridge. This closure lasted approximately two days.

Silver Skagit Road was heavily damaged as well as several houses in the area along the roads in the Kawkawa Lake Area.

The Chilliwack River Valley also saw extreme high water as crews battled to maintain the roads, and the Hatzic Prairie (Mission) area was again hit hard. Flood waters damaged many roads and did extensive property damage as well.

REGION 2

(R.W. Gittens, P. Eng., Regional Director Highways , Kamloops)
Kamloops, Salmon Arm, Vernon, Penticton, Merritt,
Lillooet, 100 Mile House and Kelowna Districts

KAMLOOPS DISTRICT

Roads

Maintenance: Routine maintenance was carried out on all roads within the District and also within the rural boundaries of the City of Kamloops. The spring was a little warmer than usual with less rainfall, and the early summer a little wetter and colder than the norm, hence some savings were made in grading and dust control. Patching was about normal in summer months. A total of 20 000 m^3 of gravel was placed on various roads and 9 500 m^3 more on shoulders.

Bridges

One completely new structure was completed on an alignment relocation on the Lumby-Mabel Lake Road, called the Butters Bridge. Major redecking was completed on the Baxter Bridge over the Shuswap with extensive decking repairs completed on seven other structures and lesser works on another fourteen structures.

PENTICTON DISTRICT

Roads

Maintenance: Routine maintenance was carried out on all district roads with major emphasis on both hand patching and machine patching in all areas. Both major highways, and side roads were recapped in several locations in each foreman area.

Major drainage improvements were carried out on several roads including the Richter Pass Highway, Anarchist Mountain, Highway 3 and Highway 97. Many area roads were also regravelled.

Extensive flood damage repairs were necessary in the Richter Pass section of Highway 3 due to a culvert failure, and on Anarchist Mountain section also on Highway 3 due to heavy spring runoff.

Winter maintenance was normal.

Major bridge maintenance consisted of redecking and deck repairs to various wooden district bridges.

Construction: Several district day labour projects continued this year, with Kruger Hill Highway 97 truck lane being completed in late March. The Keremeos truck route was also completed and repaved.

Other major improvements were reconstruction and paving on the Princeton-Summerland Road, construction and paving of Matheson Creek Road and McLean Creek Road.

Repaving of several Penticton area roads, including North Naramata Road and West Bench were completed in March. Five km of repaving was also completed on Highway 97 south of Oliver.

The Schedule 2 fencing program continued, with approximately 12 km of new fence constructed on Highway 3 in the Princeton, Keremeos and Osoyoos areas.

Work continues on Phase 2 of the Penticton Channel Parkway project and should be completed in mid 1984.

Bridge reconstruction of Oliver Ranch Road Bridge, and Fourth Street Bridge in Naramata were completed, as well as major redecking of the Eighth Street Bridge in Naramata.

MERRITT DISTRICT

Roads

Maintenance: Extensive patching was carried out on Highway 8 and the Coldwater Road. The major patches were subsequently sealcoated by District forces. With completion of a drum mix paving project on Highway 5 south district forces gravelled the shoulders. Kane Valley Road was gravelled and upgraded. At the completion of a paving project on the Trans Canada Highway, district forces upgraded the shoulders and placed 316 pieces of guardrail in this area. An extensive ditching program was carried out between Spences Bridge and Lytton on the Trans Canada Highway. The district continued its experimentation with the use of magnesium chloride as a dust palliative. This year it was tested against calcium chloride. Again the magnesium chloride showed better results.

The winter period seemed rather short this year as cold temperatures in December were followed by unseasonably warm temperatures in January. The warm temperature accompanied rain caused flooding. Some roads and several bridges suffered flood damage.

Construction: The construction program was quite extensive this year. Fourteen km of Meadow Creek Road were reconstructed and paved under a construction branch day labour project with district involvement. Two large metal bin retaining walls were installed, both by contract, one on the Trans Canada Highway 1 at Shaw Springs and the other on Highway 12. Major sections of Highway 8 were reconstructed prior to a 22 km drum mix paving project. A section of the Coldwater Road was reconstructed according to a geotechnical design over a fill failure area. A small rock stabilization project was carried out on the Trans Canada Highway 1 near Gladwin, by contract. The cuttings from the plaining on the Trans Canada Highway were hauled up to Botanie Road near Lytton and used to produce a paved road surface. This pavement was then sealcoated. Sections of Sunshine Valley Road, Coalmont Road and Lindley Creek Road were all reconstructed. The construction of the approaches to the Coalmont Bridge was completed. A 900 mm x 75 m culvert was installed in a draw on the Coalmont Road for realignment purposes. Material from a troublesome slide area was used to fill this draw. Another major project on Highway 8 involved the removal of 35 000 m^3 of rock to improve the vertical alignment, sight distance, provide a wider shoulder and ditch line. Finally a 3.2 km section of Douglas Lake Road was reconstructed.

Bridges

A January thaw caused flooding on the Coldwater, Nicola and Tulameen Rivers. Many bridges sustained damage from the flood waters and floating ice. The bridges sustaining significant damage to abutments and piers were Kingsvale No. 2, Patchett, Gavelin, Canford, Curnow and Tulameen Bridges. Riprap was also lost in some areas and rock had to be quarried in order to facilitate repairs.

A new bridge was constructed on Mamit Lake Road near Logan Lake to replace a multitude of culverts. Concrete box beams and treated timber piles were used in the construction of this 10 m long structure.

The reconstruction of Potatoeillihee Bridge on Highway 8 commenced. All necessary materials were acquired. The detour approach fills constructed and a 30 m DS super Bailey bridge installed. The traffic was detoured, the old bridge removed, and a total of 24 H piles driven, six each at the two piers and two abutments. Also four sections of metal bin retaining walls were installed on the approach fills, by contract.

Ferries

The Lytton Ferry operated normally throughout the year except for some minor shutdowns to replace the bridle cable haulage drum, the bridle cable and to facilitate an inspection of the track rope. As a result of a public request the hours of operation of the ferry were adjusted to more effectively service the public.

LILLOOET DISTRICT

Roads

Maintenance: A wet spring resulted in numerous slides and mud runs requiring our attention.

An extensive crack filling program on Route 1 east of Cache Creek was performed to reduce further deterioration of the surface.

A local contract was called for double sealing a prepared base in Goldbridge, Bralorne, Lillooet and Ashcroft. Road mix pavement was placed on 2 km of Lillooet Pioneer Road 40 and on 2.2 km of Duffey Lake Road 99.

The avalanche program encountered a warm winter with light snowfalls, therefore no major road closures were necessary. Duffey Lake Road was only closed for seven days, January 3 to January 10, 1984, as a result of an avalanche triggered by heavy rains.

Construction: The fill over Barnard Creek on Highland Valley Road commenced. The fill is anticipated to be completed next year. An additional 10 km of fencing and installation of cattleguards was done along Highland Valley Road in preparation for schedule II classification and to protect the cattle from heavy mining traffic.

Widening and realignment of Loon Lake Road took place in preparation for 11 km of drum mix paving which was also completed.

Gun Lake Road was extended to cross Lajoie Creek and join with Savage Road providing access for residences at the north end of Gun Lake.

Additional guardrail was placed at Crown Lake, Pavillion Lake, Gibbs Creek and at Sputsum Bluff area on Route 1.

Lillooet Arterial junction with Nugget Arterial was realigned and paved changing it to a "T" intersection. It was illuminated with lights by a traffic branch electrical contract.

Texas Creek Road underwent fencing and construction of 2.7 km in preparation for drum mix paving in the next fiscal.

A paving branch project of five laning through Cache Creek was completed along with traffic signals, street lighting and pedestrian signals.

Bridges

Abutments were completed for a replacement bridge over Blowdown Creek. The bridges along Texas Creek Road were redecked as was Seton Portage Bridge.

The old Baker Bridge and the old Yalakom Bridge were dismantled.

A bridge branch project was completed on widening of Bonaparte Bridge in Cache Creek.

Extensive repairs were undertaken on Bonaparte #2 and #4 near Cache Creek as a result of motor vehicle accidents.

100 MILE HOUSE DISTRICT

Roads

Maintenance: In contrast to the last few years of unseasonal wet weather, 1983/84 saw a more normal pattern coupled with a relatively easy winter in terms of snowfall and temperatures.

This allowed the District to concentrate on a balanced program of maintenance activities with greater emphasis on machine patching of Highway 97 and numerous ditching and gravelling projects.

Construction: Early spring to late fall saw an extremely active construction program. The major project was completion of Highway 24 to a crush gravel surface. This day labour project was overseen by construction branch with additional support from district personnel. The 22 km of new road completed now ties in the new completed Little Fort section making this route a shorter alternative to Kamloops and Highway 5 north.

The district also completed numerous other reconstruction and gravelling projects, as well as installation of one left turn intersection, a cattle underpass across Highway 97 and a pedestrian underpass across Canim-Hendrix Lake Road.

A paving branch contract also produced 28 km of new pavement on both Horse Lake Road and Highway 24 to Bridge Lake.

Bridges

Besides general maintenance of the district's 49 bridges, two bridges had to be replaced due to unforeseen events. Gasperd Bridge near the Gang Ranch was washed out when the Gang Ranch Reservoir upstream was breached. This was replaced by a new pile trestle structure. In the same area, Churn Bridge over Churn Creek collapsed under the weight of a truck unit hauling perlite ore from Aurun Mines. This was replaced with a temporary 70 foot DSR Bailey span.

Ferries

The Big Bar reaction ferry continued routine operation from spring to late fall. Pedestrian service was provided by the aerial ferry over the winter. Both these structures were inspected and non-destructively tested during the summer by consultants specialized in this work.

KELOWNA DISTRICT

Roads

Maintenance: A combination of unusually high precipitation over the past three years and above moderate spring runoff caused isolated erosion and washouts throughout the district. A concentrated effort using minor betterment and maintenance funds was directed towards drainage activities not only to repair washouts but also for prevention measures. For the remainder of the season all foreman areas conformed generally to the planned maintenance program. In an effort to further reduce grading and dust control costs and also to improve road surfaces, the District carried out 34.65 km of sealcoating at an approximate cost of $183,000.

Because of heavy deer kill on Highway 97 in the Peachland-Summerland area, four km of a seven-strand electric fence of the Gallagher type was installed by local contract at a cost of $14,000. This deer fence was constructed on an experimental basis and full effects will not be realized until winter and spring of 1985.

Winter came early this year; however, with the arrival of the new year temperatures levelled off and snowfall was light at lower elevations resulting in some saving of winter sand and salt materials.

Construction: A number of projects were completed during the 1983 season and in March of 1984. These included base preparation of 23.3 km of side roads throughout the district using hired equipment and paving by local contract. In addition, 9.3 km were recapped. Left turn slots were constructed on Highway 97 at Oyama Road in Oyama and on Highway 97 at Trepanier Road in Peachland. Further improvements to intersections were carried out on Highway 97 at Banks and Leckie Roads in the City of Kelowna. One of the major projects was the complete reconstruction and paving of 1.85 km of the Benvoulin Road from Springfield Road to K.L.O. Road.

Bridges

The old king truss bridge over Mission Creek on the East Kelowna Road was replaced with a new prestressed concrete stringer structure. This bridge was originally constructed in 1942. The Mission Creek bridge on Casorso Road received a complete new deck including cross-ties and wheel guards.

REGION 3

(W.M. Sproul, P. Eng., Regional Director Highways, Nelson)
Nelson, Rossland, Grand Forks, New Denver, Cranbrook,
Fernie, Golden, Revelstoke and Creston Districts

NELSON DISTRICT

Roads

Maintenance: A regular scheduled maintenance program was carried out in all foreman areas throughout the District. Snowfall was average and the district had little difficulty maintaining good winter road conditions.

Construction: No major projects were undertaken during the year, however, district crews continued with an improvement program for Highway 3A east of Nelson. Also, 2.1 km of previously dedicated road was opened to traffic, 8.3 km of road was realigned, widened and improved, and 9.6 km of bituminous plant-mix asphalt was placed.

Bridges

The bridge crew continued with construction of the Airy Creek bridge, anticipating completion in 1984. This crew was also occupied for much of the year, repairing and upgrading the Kootenay Lake Ferry docks.

Ferries

Summer traffic was about the same as previous years, and required our vessels to work to capacity. The M.V. Balfour went into dry dock for major refit in April. C.S.I. inspection proved the vessel to be in very good condition. The Harrop Ferry underwent a major refit which necessitated the temporary relocation of the Trout Lake Ferry to the Harrop route. The Glade Ferry operated as usual, without serious interruption.

ROSSLAND DISTRICT

Roads

Maintenance: Patching potholes, winter sand clean-up and repairing slips amidst spring snowfalls accounted for most of the road crews' time during early spring.

Late spring and summer were occupied with normal maintenance activities. Considerable patching and crack sealing between Castlegar and Trail Highway 22 and along the Castlegar-Meadows section of Highway 3 was accomplished. This was in preparation for chip sealing; however inclement weather thwarted this operation.

Minor betterment projects relocated a section of the Terrace Road to Verigin's Tomb and much needed drainage curbs and catches were constructed on the Castlegar-Meadows Highway. Further road and drainage improvements were accomplished at Webster School in Warfield and at Bluebird Corner in Fruitvale.

Road closures on the Blueberry-Paulson section of Highway 3 and the Nancy Greene-Rossland section of Highway 3B during the strike in early November made it obvious how troublesome these two mountain passes can be even in early winter.

Taking advantage of breaks in the weather, the Rossland road crew hand brushed sections of the Castlegar-Trail Highway which greatly improved site distances.

March weather was relatively tame compared to most years.

Construction: Capital funds were allotted to continue replacing the fills washed out on the Seven Mile Dam access road in March of the previous fiscal year. Good fortune, ingenuity and hard work finally opened up the plugged Seven Mile Creek culvert which had held up progress for many days.

Other projects consisted of paving 2.5 km of minor roads and the Robson ferry ramps, and 678 m of guardrail was placed mostly on Highway 22.

Bridges

Further patching work was carried out on the Brilliant Bridge deck, with other bridges receiving minor repairs to their decks and fences.

Four concrete bridge decks were treated with various types of preservatives to determine their usefulness.

Beaver Creek #1 was dismantled and replaced with a 20 m concrete box string structure.

Ferries

Minor repairs were completed to guide cables and repairs on the Castlegar ramps were underway at the end of the year. Shut downs occurred during extremely low water, and again for engine repairs, however, these only totalled a few days.

GRAND FORKS DISTRICT

Roads

Maintenance: An early spring allowed maintenance and minor betterment projects to get underway early in April. Due to significantly higher than normal snowpack in the West Kootenays, the Kettle River reached near-flood proportions by May 28, and while some flooding occurred on lower lying ground, major flooding did not occur. June through July was extremely wet and the patching and sealcoating work met with delays. However, a total of 34 km of sealcoating was completed in the District by the end of August. We were fortunate during the strike that no major problems arose. During this period, we assisted the Rossland district in maintaining a closure of the Blueberry-Paulson when snow made it hazardous, but the remainder of the highway system was trouble free. Heavy frost from mid-December to the end of December drove frost deeper into the ground than normal, resulting in severe frost heaving in March and very weak road bases during breakup. Snowfall was short in duration and the majority of snow fell in late December to mid-January. A log crib failure on Westlake Drive necessitated the installation of 1,050 square feet of binwall. This project was completed in March.

Construction: North Fork Road improvements (Project C0018) km 00 to km 43, consisting of widening and riprapping, was done by Day Labour on the north 13.8 km in 1982 and the south 16 km in the spring of 1983. In late summer 1983, the paving contractor, Peters Brothers of Penticton, paved 13.8 km on the north end and 2.4 km on the south end. They also paved a new intersection at Carson Corner a few kilometres west of Grand Forks, and an intersection and left-turn slot at Christina Lake.

Shoulder widening and ditching was carried out on Rock Creek-Kelowna Highway 33 from Westbridge to McCulloch Junction. Hulme Creek Road (Project C1881) was rebuilt with some relocation, widening and gravelling. Under Project C1888, a 5.5 km section of Christian Valley Road 43 was relocated to bypass a narrow winding section, and eliminate a summit with 16% gradients on both sides. The new section will only have one short 300 m section of 2.3% grade, which will be of considerable benefit to logging traffic.

Bridges

Routine maintenance was carried out on several bridges in the district and three projects were completed. White Cabin Howe truss bridge received new floor beams, deck and railing. Boundary Smelter pile trestle was renewed from the caps up, and the old wooden howe truss at Westbridge was removed.

CRANBROOK DISTRICT

Roads

Maintenance: District roads were all well maintained during the year, with some man-hours being transferred to maintenance management activities with a higher priority.

Patching, ditching, grading, road base repair, culvert and sign maintenance were the main activities undertaken in the summer months.

Dust abatement in the form of calcium chloride and calcium lignosulfonate was placed on 44 km of gravel and dirt roads throughout the District.

An extremely mild winter combined with a very limited snowfall reduced the sand/salt usage and the winter maintenance activities significantly.

Construction: Capital day labour work included reconstruction and gravelling of 3.3 km of Kimberley Highway 95A south of the Marysville area; 1.6 km of new construction and gravelling of the Cranbrook North Interchange; 4.4 km of reconstruction and gravelling of Lazy Lake Road near Wasa; reconstruction and gravelling of 7.1 km of Sheep Creek Road at Skookumchuk, reconstruction and gravelling of 3.2 km of Pighin Road at Wycliffe, and placement of 19 mm crush and double flushcoat of 3.2 km of Mission-Wasa Low Road. Road mix paving was completed on 1.5 km of road at Yahk. Various streets and roads throughout the district received 4.1 km of new double flushcoat and 9.0 km of reflush treatment, while 19 mm crushed gravel was placed on an additional 9.5 km of road.

Other work undertaken involved the installation of 0.4 km of perforated culvert adjacent to Crowsnest Highway 3 near Wardner and construction of 12 wheelchair drop curbs in Kimberley.

Two Schedule II fencing contracts were called and 1.07 km of new fence constructed.

The City of Cranbrook completed a 1.4 km landscaping project along the Cranbrook Arterial Highway.

Bridges

Repairs to two concrete structures on Crowsnest Highway 3 were undertaken to replace deteriorated and spalling concrete. Project 2253 involved reconstruction of portions of the wing posts, replacement of 60 m of curbing and recapping the lower end of the west pier on Goatfell-Moyie River Bridge. Project 2254 involved work undertaken on Moyie-River Wards Bridge where portions of the curb, wing posts, wing walls, and cap on the south pier were replaced, along with one concrete fence post.

Galvanizing of 427 m of fence panels on six bridges along Crowsnest Highway 3 were completed under Project B-2543.

Buildings

Interior painting of the Cranbrook Shop was completed by B.C. Buildings Corporation.

NEW DENVER DISTRICT

Roads

Maintenance: Road maintenance was carried out in all areas with no complications, except for Highway 31, Howser to Gerrard, exceptionally heavy rains brought most of the creeks to flood level, washing out some sections of the road.

Dust control was applied early in the season.

Snowfall was light, but frequent storms required more sanding and salt applications.

Construction: A major project on Highway 6 was undertaken on the Monashee, supervised by the construction branch. 4.8 km of grade completed but not paved. 1.0 km of Highway 6 at Nakusp was reconstructed to 3 lane width and paved. .8 km on Highway 6 north of Hills was reconstructed and paved, eliminated a sharp curve. Nakusp Hot Springs Road, 12 km was improved and gravelled ready for pavement. Highway 31, Mirror Lake, .6 km was relocated and paved eliminating a hazardous curve.

Guardrail - 789 linear metres of 690 mm guardrail was installed throughout the district.

Bridges

Three new bridges were constructed, an old log stringer, Kywatts, on the Kokanee Glacier Road was replaced with a steel stringer bridge as well as Sandon Bridge at Sandon. A steel pile, concrete box stringer bridge was built and completed at Meadow Creek. Tenderfoot Bridge on the Gerrard Road was washed out due to heavy rains and had to be positioned.

Ferries

M.V. Needles was taken out of service for a major refit, ferry service for the Needles - Fauquier crossing was maintained with a tug and barge.

Arrow Park cable ferry operated with no disruptions.

FERNIE DISTRICT

Roads

Maintenance: The District encountered no major maintenance problems throughout the year. Considerable fence repair however was necessitated in the Jaffray and Sparwood areas due to wildlife crossings. Also most railway crossings in the Jaffray area required repairing due to the C.P.R. raising their tracks.

The mild winter with intermittent cold spells and therefore more than normal freeze-thaw cycles created some drainage problems with frozen culverts and also resulted in an increased usage of de-icing chemicals. The considerably below average snowfall enabled the roads crews to begin and accomplish certain activities ahead of the normal schedule for the Fernie District.

Construction: The entrance to Corbin Road was improved with the construction and paving of a left-turn slot. The first two railway crossing approaches on this road were also reconstructed and paved. Shoulder widening, ditching and sloping was undertaken and mostly completed on the Elk Valley Highway 43 from Sparwood through to Elkford. Two left-turn slots were also constructed and paved on Highway 43 at its junction with Balmer Drive and Intata Drive in Elkford. A 2.7 km section on the Kikomun-Newgate Road was reconstructed up to a crushed granular surface. There was miscellaneous gravelling on a number of side roads in the Fernie and Jaffray areas. An inverted prime was then applied on most of these roads. Two passing lane sections on Highway 3 west of Fernie were constructed with one section complete to a gravel surface and the other about 50% done. The new Sparwood Weigh Scale site was constructed and paved with a left-turn slot, acceleration and deceleration lanes on Highway 3.

Bridges

Maintenance: False bents had to be placed at each end of Sand Creek Bridge due to rot in the log stringers at the abutments. Michel Mouth Bridge required extensive concrete deck repairs. Damaged flex-beam guardrail was repaired on Andy Good Creek Bridge, Fraser Creek Bridge, Grady Creek Bridge, Haynes Creek Bridge, and Woodland Bridge all on the Corbin Road. Bursato Bridge on a side road off the Elk Valley Road was removed. Morrissey Bridge over the Elk River was given a thorough inspection which resulted in the load limit being reduced to 5 tonnes. Additional blocking was placed under the stringers at the midstream bent.

Construction: The east abutment to Michel Old Town Bridge was repaired which involved removing and replacing the top 1.5 m of the abutment. A concrete slab was placed around and a new concrete cap constructed on the west pier of the West Fernie Bridge. The concrete fence posts on Big Sand Bridge required extensive repairs. Fence panels were galvanized on the Jaffray Overhead, Elko Overhead and Lizard Creek Bridge.

GOLDEN DISTRICT

Roads

Maintenance: This year's maintenance program was completed generally as planned with all district roads being kept in good condition throughout fiscal year 1983/84. Considerable patching on the Trans Canada Highway (Golden to Donald) was undertaken and will likely be an annual maintenance problem until this section of the Trans Canada is resurfaced. Crack filling was tried on newer pavement section of Highway 95 (Golden to Castledale) with a cold pour material which proved unsuccessful at year end. Rubberized materials are now being recommended as a result of regional study on crack filling materials and their application. Extensive ditching was carried out on Moberly School Road, Campbell Road, Toby Creek Road and Wilmer Lanes and Streets. Magnesium chloride (one railcar) was tried in the Invermere foreman area as a dust palliative on a newly constructed district road as a test and results are favourable to date. Erosion problem along Highway 93/94 at Windermere Creek was repaired with maintenance funds as well as several roads gravelled with crushed gravel at year end.

Snowfall was unusually light this winter thus there was a reduced usage of sand and salt over the winter months. Private driveways south of Golden (Parson - Briscoe) area were plowed as required, as commercial equipment was not available to do private driveways this winter. Due to the strike November 1-13, winter maintenance services were not available and as a result highway closures were necessary due to ice conditions on the Trans Canada Highway. November 8 - two-hour closure west of Golden, November 11 - nine-hour closure east of Golden.

Spring breakup has been better than expected and road restrictions were not required on district roads again this year. Excellent co-operation has been received from local area logging operations in the district on use of public roads where spring breakup could have possibly resulted in restrictive use.

Construction: The Golden district benefitted from an accelerated day labour program this year. A number of substandard gravel roads were reconstructed, the major ones being Golden/Donald Upper, Hartley, Toby Creek Cutoff, Westside, Spence, and Thomas. Gravelling was carried out on miscellaneous roads in both Golden and Invermere foreman areas. Hotmix asphalt laid in place was used to recap miscellaneous sections on Highway 93/95, Fairmont Road, Toby Creek Road, Westside Road, and Horsethief Road. Panorama Subdivision (1.6 km) was paved by contract. Asphalt curbing was carried out by district crew to prevent erosion of gravel shoulders from heavy rain runoff along problem areas of Trans Canada. The shoulder of the Trans Canada was widened at the Hartley Road intersection to provide for a left turn slot which requires paving to complete. The Trans Canada Highway was reconstructed for 3.0 km between Yoho Bridge and Park Bridge to provide a four-lane section of highway to improve traffic flow east of Golden. Reconstruction was by day labour and supervised by regional construction branch. Resurfacing project S-1766 resulted in 17 km of district roads being resurfaced as well as the four-lane section of Trans Canada under supervision of regional paving branch. Gravel shoulders on the Trans Canada between Donald and Glacier Park were widened in several areas with pit run gravel. Also new asphalt curbing was backfilled with gravel.

Fencing of Schedule II highways was done again this year by supplying property owners on request with materials to replace deteriorated fencing along Highway 93/95, as well as some fencing being replaced by contract.

Bridges

Musquash Bridge was replaced with an 18.3 m (60') precast concrete box stringer bridge on treated piling, by district bridge crew. Horsethief Bridge was damaged when heavy rains washed debris downstream. One five-pile bent was completed washed out and piles on a second bent were damaged. Bridge was closed July 13-August 4, 1983. Repairs were carried out by district bridge crew under bridge day labour. Donald Overhead had fence panels removed for galvanizing which was by contract, removal and reinstallation of fence panels was by district bridge crew. Quartz Creek Bridge required the installation of temporary fencing as six fence panels and posts were knocked out as a result of a motor vehicle accident and permanent repairs will not be completed until early summer 1984. Fence panels were repaired on Yoho Bridge and Park Bridge.

REVELSTOKE DISTRICT

Roads

Maintenance: Heavy rains combined with a late runoff at the higher elevations caused considerable flood damage during the week of July 12-17, 1983. A multiplate washed out at St. Cyr Creek and there were numerous blocked culverts, small washouts and shoulder erosion on Nakusp-Mica Creek, Highway 23 north. There were four major washouts on Nakusp-Mica Creek, Highway 23 south between Revelstoke and 16 km south and also numerous locations with shoulder erosion on Trans Canada Highway 1. The gravel fill approach to the Illecillewaet Bridge at Greely was completely washed out and one km of road had to be reconstructed and regravelled. Riprapping was required at the Illecillewaet Bridge at 4th Street, Cranberry Creek Bridge, Highway 23 south, and Albert Canyon East and West Bridges on Trans Canada Highway 1. Rechanneling was required at Silver Tip Bridge on Highway 23 north, and at Albert Creek in the vicinity of Albert Canyon Yard where a small bridge to the gravel pit was washed out. The snowpack this year was below normal accumulations by approximately 100 cm with the only major avalanche cycle between January 23-27. 825 m of 460 mm guardrail was replaced with 690 mm guardrail on Trans Canada Highway 1 and another 2 900 m of 690 mm guardrail was realigned and reset.

Construction: Work continued on Balfour-Kaslo-Galena Bay Highway 31 with 2.3 km of new construction completed and an additional 2.4 km of clearing and grubbing being undertaken. Corner and shoulder widening continued on Beaton-Armstrong Lake Road over a distance of 4.75 km. 1.3 km of clearing and grubbing was completed and a grade roughed in on the Westside Road at Trout Lake. Reconstruction continued on Mt. Begbie Road, Mabel Lake-Three Valley Road, Hill Creek Road for a total of 2.88 km.

Bridges

Bridge cleaning was completed on all bridges. Bridge railings from Crazy Creek Bridge, Three Valley Overhead and Woods Overhead were sandblasted and galvanized. Construction of a new concrete box beam span was completed at Armstrong Lake to replace the old Armstrong Lake Bridge. Construction of a steel mesh deck and replacement of the wooden sidewalk was completed on Old Columbia River Bridge.

Ferries

The M.V. Galena maintained a regular schedule throughout the year with only minor delays to accommodate repairs to engines and generators. The Galena Bay Ferry dock was riprapped on both sides down to lake level to prevent erosion.

Buildings

A sand shed was constructed at 50 Mile Yard.

CRESTON DISTRICT

Maintenance: Early spring rains while frost was still in the ground resulted in early road restrictions with some minor damage occurring on side roads. The minor betterments program assisted in upgrading some of these areas with improved drainage followed by application of gravel.

The guardrail program continued with the installation of approximately 800 m of 690 mm no-post guardrail along Highway 3A (Kootenay Lake area).

Subdivision and permit applications were fewer than last year with 76 subdivisions and 107 permits processed.

Winter maintenance activities were generally routine with above normal temperatures and less than normal precipitation. Kootenay Pass snowfall totalled 844 cm. There were 331 recorded avalanches of which 175 were controlled releases. A total of 932 rounds of explosives were used in avalanche control work. Total road closure time was 152 hours and 40 minutes. The longest closure was 22 hours and 45 minutes.

Construction: Several minor projects were undertaken and completed on district side roads with 6.43 km of reconstruction and 7.12 km of reshape/gravelling/sealcoating.

Four headquarters safety projects were undertaken, two of which involved widening of road ways in school areas and a third was widening on the Creston Arterial for pedestrian safety.

Bridges

Regular maintenance was undertaken on 29 structures throughout the district with several minor repairs completed.

A small timber bridge was constructed over Summit Creek for access to Maryland gravel pit. A Bailey was constructed by our district bridge crew for temporary use on Highway 21 while the Black Bridge is being replaced by headquarters.

Major repairs were completed on Corn Creek and Kidd Creek structures. The handrails of three bridges were treated by hot-dip galvanizing.

REGION 4

(L.A. Broddy, P. Eng., Regional Director Highways, Prince George)
Prince George, Quesnel, Dawson Creek, Fort St. John,
Vanderhoof, McBride and Williams Lake Districts

PRINCE GEORGE DISTRICT

Roads

Maintenance: Spring break-up in 1983 came early due to mild temperatures and light snowfall the previous winter.

The light spring runoff caused only minor road damage or flooding throughout the district.

There was no heavy frost heaving or damaged caused to trunk highways or local roads.

We did have four slides on the Upper Fraser Road caused mainly by underground springs. This necessitated major repair works prior to paving.

Early summer dry periods assisted in our program of minor betterments, regular maintenance and improvement projects throughout the district.

The very little snowfall and warm weather this past winter was welcome with respect to snow removal activities. Warm periods in February caused melt-thaw conditions resulting in some minor problems in frozen culverts and drainage systems.

Due to the below normal expenditures for snow removal and sand-salt operations plus little frost we were able to carry out ditching and widening on Yellowhead Highway 16 East from Slim Creek to Crescent Spur. We were also able to carry out gravelling on some area side roads with district forces.

We were also able to fund a ditching project on Aitchison Road Arterial and school route improvements on the John Hart Highway 97 Arterial in cooperation with the Prince George City.

Construction: Major reconstruction was completed on 27.6 km of miscellaneous school bus and feeder roads within the district. 0.4 km of Yellowhead Highway 16 West from Gauthier Road was widened and paved for merge and acceleration lanes.

Major crack sealing and patching was completed on 33 km of John Hart Highway in preparation for graded aggregate.

Ditching, drainage improvements and rock cut widening was carried out on 38 km of Yellowhead Highway 16 East from Upper Fraser Road eastward prior to repaving.

Crushed gravel was placed on 33 km of miscellaneous district roads throughout the district.

Crushed gravel and pavement was placed on 2.5 km of West Lake Road from the Blackwater Road to the new West Lake Provincial Park.

Four road failure areas were repaired and reconstruction was completed on 17.6 km of the Upper Fraser Road.

1.62 km of guardrail was placed on trunk highways.

8.7 km of fencing was completed on Schedule II highways.

Bridges

The Bateman Bridge 6801 was replaced with a log stringer bridge

The Old Fraser Bridge (C.N.R.) had extensive welding on the deck once more.

The Old Nechako Bridge received new plank decking on cross ties and was then turned over to the City of Prince George as part of the amalgamation agreement.

The upper end of the multiplate on McMillan Creek adjacent to the Old Nechako Bridge was extended and shoulder repaired conducted as part of uncompleted city amalgamation works.

The bridge crew began installing ice breakers on the Pack River Bridge but did not complete this work as they were called to Fort Nelson to assist in assembling an Acrow bridge across the Fort Nelson River.

Damage repair and regular maintenance of bridges occupied the remaining working time of the district bridge crew.

Buildings

March 2, 1983 our mechanical crews from First Avenue and 15th Avenue yardsite moved to our newly constructed shop at our 18th Avenue yardsite.

The carpentry shop was moved to the former painting shop at the 18th Avenue Yard.

The Highway 16 and 97 road crews were moved from 1st Avenue to new modular building next to the new shop in 18th Avenue yardsite.

Our sign shop, survey crew and machinery service bays were moved to the former 15th Avenue mechanical shop.

The bridge crew will be moving from First Avenue to this building in the near future.

Ferries

The Isle Pierre Ferry was taken out of service in November of 1982. In the spring of 1983 the decision was made to abandon this service. Therefore, the ferry was not put back into service but dismantled and removed from the site.

QUESNEL DISTRICT

Roads

Maintenance: Light snow conditions were encountered during the winter months and although no spring runoff problems were evidenced, there was a fair amount of winter damage on the roads.

Dust control with calcium chloride was undertaken over 120 km within the district.

Construction: Construction on projects was hampered somewhat from late spring to mid-summer by heavy rains however a late fall extended the construction season.

Cariboo Highway 97 from Northstar Interchange to Maple Drive was widened to four lane capacity with complementary bulbed frontage road connections.

March Drive 748R from Moffat Bridge to Avery Avenue was widened to four lane capacity including curb and gutter.

210 km of other district roads were included in the districts construction and upgrading program.

Bridges

Extensive works were undertaken on the Old Fraser River Bridge to strengthen the bridge for use by pedestrians.

A new 60 m timber stringer bridge was installed at Bear River.

Maintenance repairs were undertaken on several other bridges in the district.

Ferries

The reaction ferry at Marguerite was in operation from April 5, 1983 to November 14, 1983. The aerial cage ferry was used during the winter months.

DAWSON CREEK DISTRICT

Roads

Maintenance: The Dawson Creek highways district experienced a late spring breakup with considerable winter activities being performed after April 1, 1983. Damp weather and rains persisted, especially in the southern and western portions of the district, causing considerable surface damage. This was especially evident on the Northeast Coal Development access routes which were at that time experiencing a large volume of heavy traffic. Wet weather continued until August with considerable flooding around Dawson Creek during mid-July. Some road surfaces suffered loss of gravel, however, the majority of the damage occurred to the ditches, backslopes and drainage facilities. The latter part of the summer was ideal for maintenance and all roads were graded and a portion of the high-priority flood damage was repaired to a manageable level. All pavement patching was completed and the district went into the winter with road surfaces in good condition.

Winter commenced at the usual time and was of normal severity. The district was well prepared with sand/salt stocks, and all Ministry maintenance equipment was ready as well as winter maintenance contracts in place.

During November, when the work interruption occurred, road surfaces became very slippery, however, as soon as the crews were back to work conditions quickly returned to normal. The remainder of the winter, with the exception of a couple of cold periods, was very mild and dry resulting in a surplus of winter sand a low use of chemicals. March was very mild and dry making it possible to undertake summer betterment activities such as right-of-way clearing, gravelling, road base improvements and preparation of sand stocks for the upcoming winter. March spring breakup damage was minimal, although culvert steam-cleaning was an around-the-clock effort.

Construction: Day labour projects continued on the Heritage Highway with base construction on 15.4 km from Quintette turn-off to the northerly access to Tumbler Ridge. Also, complete reconstruction was done on the Heritage Highway from Tumbler Ridge to Quality Creek, including the Quality Creek multiplate. At the north end of this highway 20.3 km of new location and reconstruction, as well as 3 km of clearing and stripping, was completed. The surface was gravelled on these two sections. In addition, approximately 12 km of clearing and grubbing was done between Mile 36 and Muskeg Lake.

In the vicinity of Dawson Creek and Chetwynd the following was undertaken and completed:

- 13.9 km of base preparation for local miscellaneous paving
- 4.6 km of three-laning was constructed on Highway 97, East Pine and Peace Hills

The general district day labour program included 30.3 km gravelling, 203.2 km regravelling, 51.8 km construction or reconstruction and 3.0 km district paving or repaving.

Bridges

Bridge day labour included complete reconstruction of two, three-span timber trestle bridges - Wartenbee Bridge 7292 and Resnick Bridge 7286. In addition, the district crew manufactured three 18.5 m length single-lane portable bridges to be used during emergencies and as temporary crossings during bridge reconstruction.

The bridge maintenance program included major removal of one eight-span pile trestle bridge and considerable repair work on nine other district bridges. All concrete and steel bridges were washed immediately after winter chemical use was discontinued, and all bridges were inspected. District crews also removed four temporary Acrow bridges on the Northeast Coal access, including removal of 90% of the steel substructures.

Ferries

The Clayhurst Ferry operated between April 18, 1983 and December 19, 1983 with only minor interruptions. It was then down from December 19, 1983 to January 4, 1984; operated January 4, 1984 to January 16, 1984; then down due to ice and winter conditions until February 5, 1984. The ferry returned to service February 5, 1984 and operated for daylight hours continuously until March 31, 1984.

FORT ST. JOHN DISTRICT

Roads

Maintenance: Spring arrived on schedule and runoff was average. The roads dried up very quickly and the dry weather which extended into early summer caused much demand for dust-control at an earlier than normal date. A very wet early fall caused many gravel roads to soften, with a resulting heavy demand for gravelling. Winter progressed normally through December, thereafter however, it became exceptionally mild and dry. Many freeze-thaw cycles during the first three months of 1984 caused many icing problems and steaming of culverts was the major activity during March.

Construction: A very active construction season commenced April 25 and continued to December 3. During May and June, much work was done on the Alaska Highway to prepare for the paving contract which extended from the Taylor Bridge to Road 269. Numerous culverts were replaced and two major intersection revisions preceding the paving. Regravelling commenced in July and a total of 426 km of road was regravelled. A large unique project was undertaken in August consisting of the installation of 1492 m of 2000 mm and 2400 mm diameter storm sewer. This installation replaced the deep open ditch along the Alaska Highway within Fort St. John and now carries the bulk of the downtown area runoff. The project was substantially completed in October.

In addition, a new creek crossing at Tea Creek on Road 119 was completed, the new Bogg Creek crossing and associated road work completed the new Buick Creek-Alaska Highway connection, the bridge approaches to the new Fort Nelson River Bridge on the Liard Highway were reconstructed. During March, works were carried out on Road 117 (Mile 95 Road) in anticipation of the major loghaul scheduled for summer 1984.

Bridges

Construction work on the new Fort Nelson River Bridge was well underway by year end with the substructure virtually complete. Lost Bridge was replaced with a new wooden structure, and concrete stringers and steel H-piles were purchased for use in the new structure scheduled to replace Milne Bridge. The bridge crew was also involved in construction of the three concrete structures associated with the Alaska Highway storm sewer project.

Buildings

A new salt shed was constructed by the bridge crew at Mason Pit.

Ferries

The tug and barge ferry operated flawlessly crossing the Fort Nelson River on the Liard Highway. This was the last full season of operation as the new bridge should be complete by June 1984.

VANDERHOOF DISTRICT

Roads

Maintenance: Near normal precipitation, combined with above average temperatures much of the winter, created icy conditions several times during the months of January and February. Because of icy conditions extensive sanding of side roads was necessary. This was accomplished by using pit run sand and crushed aggregate.

Calcium chloride was initially applied by the supplier with late summer applications carried out by district staff.

Extensive machine brushing was carried out along rights-of-way as part of an ongoing program to catch up on this activity.

Minor betterments in all four foreman areas benefitted the Ministry and general public with ten minor roads and five collector roads receiving attention in the form of realignment, ditching, gravelling, culvert replacement, brushing and right-of-way clearing.

An extensive pavement patching and cracksealing program was undertaken in preparation for sealcoating operations on Yellowhead Highway 16 and Fort St. James Highway 27.

Construction: A moderate construction program in 1983 resulted in completion of the new Nechako River crossing; 4.26 km of reconstruction on collector roads; 3.2 km reconstruction on farm roads; 10 km of gravelling; 2 km of slope stabilization and 3.2 km of right-of-way fencing along Schedule II highways.

Bridges

Forty-five structures received maintenance in the form of cleaning, washing, deck repair, railing repair and wheelguard repair.

Major repairs to Nechako River Bridge 250 continued during spring load restrictions in 1983 with two spans having lower laterals, floorbeams, diagonals, counterbraces, wheelguards and railings replaced.

Collins Bridge 6944 was replaced with a new 9.34 m long log stringer bridge and Chilco Bridge 7004 was widened from 4.87 m to 7.31 m.

Mines and Trails

Road maintenance was carried out on the Omineca Mining Road from the Nation River to Moose Valley, a distance of 329 km.

Ten bridges received maintenance attention and one bridge was replaced with a new steel and timber structure.

Winter maintenance on the Omineca Mining Road to 241 km north of Fort St. James was accomplished utilizing one Ministry four ton plow truck and, when required, one hired grader.

Road maintenance was also performed on the Germansen Lake Road with the major activities being culvert replacement, gravelling and grading.

Two bridges on the Germansen Lake Road received new running planks in the wheel tracks.

Fisher Creek Bridge 7150 was replaced with 2000 mm corrugated metal pipe.

McBRIDE DISTRICT

Roads

Maintenance: A mild winter followed with a moderate spring runoff resulted in only minor post winter activities. Our crack sealing activities received higher than normal attention due to the extensive pavement movement occurring throughout the district. Road base stabilization was continued again this year with good penetration and retention. The district's patching program was augmented with day labour funding which allowed the utilization of a paving machine and thereby, reducing unit costs.

Another activity which was accelerated with an infusion of betterment funding was the machine brushing program.

Construction: The district had a diversified constructive program with projects having start dates from early April through to the middle of March. Some of the more notable projects included the reconstruction of 3.82 km of the Dunster Station Road in preparation for paving, the reconstruction of 1.34 km of Dore River Road and the new construction of 2.1 km of Prospect Road.

These projects and several other smaller ones were coordinated with our maintenance program to achieve a balanced manpower level and reduce maintenance costs.

The winter also allowed the district to undertake several projects in early February, these included the riprap placement along the Fraser River for erosion protection of Mountain View Road, the preparation of a rock quarry at Abernathy rock pit for future use, along with an extensive ditching program that included widening of several rock cuts on Highway 16 west of Gold Creek.

Bridges

All bridges were included in the annual inspection resulting in a slight adjustment to the construction-maintenance program. The regular maintenance consisting of washing, bridge rail replacement, redecking and guardrail replacement were worked around a very busy concrete deck resurfacing program. Twenty-one structures received a new deck through the efforts of the Ministry bridge resurfacing crews.

Along with the regular maintenance the bridge crew carried out several small construction projects including the completion of the Tete Creek Bridge utilizing two 15 metre spans of precast concrete box beams. The removal of two temporary Bailey spans over Swift Creek and Tete Creek was coordinated after the permanent structures were in place. One other Bailey project was also carried out over the Beaver River replacing the Old Wooden King Truss with a 55 metre, double single cord reinforced Bailey over center pier and distributing beam. In the close of the year, the crew assembled three 213 cm multiplate pipes for installation in the narrows between Yellowhead Lake and Lucerne Lake, replacing an old 60 metre sod stringer structure which was seated on deteriorating mud sills.

The crew finished off the year placing the finishing touches on a prefabricated 18 metre single lane structure consisting of steel I-beams and wooden cross ties and deck, scheduled for installation at Lions Creek in 1984.

Buildings

The year saw only a few changes to our buildings, but the significant one was the new district office. Our mechanic foreman also received new quarters with the district bridge crew working with B.C.B.C. to complete it within the year.

B.C.B.C. carried out many routine maintenance activities to our structures to brighten the employees working environment such as painting, washing and miscellaneous repairs.

Garages

The main shop at Tete Jaune was kept relatively busy and along with the two satellite shops managed to remain accident free.

Safety

The district as a whole made both personnel and vehicle accidents a priority and was successful in reducing both significantly.

WILLIAMS LAKE DISTRICT

Roads

Maintenance: A light snowfall led to only minor spring breakup problems. No major runoff or flooding occurred. The logging industry again cooperated well during the period of load restrictions to the advantage of both industry and the Ministry. The length of the restricted period on side roads over the last few years has been reduced as the strength of gravel surfaced roads has increased. Summer and fall maintenance activities continued normally with emphasis on gravelling, ditching, and dust control. In the new Tatla Lake foreman area maintenance was carried out using hired equipment. The winter again was relatively mild with modest snowfall resulting in considerable cost savings.

Construction: Major works were carried out on 43.8 km of road. Included were portions of Chilcotin-Bella Coola Highway between Lees Hill and Alexis Creek plus all the Alexis Creek streets in time for paving by contract. West of Alexis Creek 2.4 km of the section to Bull Canyon was completed in March. Further west, 2.4 km of highway was completed providing approaches to a new bridge proposed at Kleena Kleene. On Horsefly Road seven km were reconstructed completing the program for this road. On Likely Road a further 7.1 km was finished leaving only another seven km to reconstruct in the Big Lake area. Other reconstruction included Pigeon Road 1.4 km, Hancaville-Canoe Creek Road 3.5 km, and Chimney Lake Road 1.6 km. A highway left turn slot and new connection to Fox Mountain Road plus reconstruction of 1.6 km of road was completed in March. Six km of new road was built to serve the Redbrush Indian area near Puntzi Lake. North of Anahim Lake the Dean River Road was extended for a further .8 km plus a further 13.8 km was cleared.

Bridges

Four new bridges were completed. These included a precast concrete stringer span at Anahim Creek on Highway 20, replacement of a Bailey bridge at Crazy Creek on Tatlayoko Road by a log stringer span, a small Bailey bridge at Towdystan to provide access to a major gravel source, and log stringer span over Young Creek at the foot of Bella Coola Hill to provide access to the Atnarko River Trail in Tweedsmuir Park. In addition, major repairs were done to the Hagensborg and Alexis Creek Bridges.

Buildings

No new buildings were provided but at the end of the year the district office moved from rented premises to the Provincial Buildings.

REGION 5

(D.P. Doyle, P. Eng., Regional Director Highways, Terrace)
Prince Rupert, Terrace, Dease Lake,
Smithers and Burns Lake Districts

PRINCE RUPERT DISTRICT

Roads

On Highway 37 north of Meziadin Junction grade revisions and widening were carried out over a 2.5 km distance in preparation for future paving.

New bridges were constructed this year at Aberdeen Creek, Ekumsekum Creek, Marigonish Creek, Antigonish Creek and Inver Creek on Highway 16. On Highway 37A, Bitter Creek, Cullen Creek, Bear River II, Surprise Creek and Entrance Creek Bridges were also constructed. Approaches for these new bridges were constructed as each bridge became available for traffic.

The first lift of paving was completed between the Nass River on Highway 37 and Surprise Creek on Highway 37A. This project is due for completion this summer.

On the Queens Charlotte Islands, the erosion control program is well underway. Work on riprap protection was completed at four locations along Highway 16 on Graham Island. Work will continue on this project for the next few years.

A graded aggregate seal project was undertaken on the Queen Charlotte Islands but inclement weather prevented the district from completing this program.

There were three debris torrents which crossed the highway this year. Two were reported on the Port Edward Arterial 599R and one at Piper Creek on the Alliford Bay Road.

456 avalanches were reported on Highway 37A this winter with over 45 covering the road. This kept the avalanche technician and maintenance crews busy throughout this winter.

TERRACE DISTRICT

Roads

Maintenance: A mild winter and below average snow accumulation resulted in no avalanche activity along Highway 16.

Maintenance crews were kept busy controlling icy conditions resulting from the mild weather.

An extensive machine and hand brushing program was continued on area roads.

Machine patching and crack sealing continued on Highway 16 and Highway 37 (25).

Construction: Work continued on the 22 km of Kalum Lake Road from Glacier Creek to Cedar River in preparation for paving in 1984/85.

Riprapping of Highway 37 (25) adjacent to the Kitimat River was undertaken.

Construction of riprap dykes and approach fills for the Greenville Bridge as well as 5.8 km of road construction was accomplished.

Bridges

Douglas Creek Bridge constructed.

Annual bridge maintenance was carried out within the district.

Reinforced concrete surfaces were installed on Glacier Creek, Morrison Creek, Thornhill Creek and Douglas Creek Bridges.

Removal of old structures continued on Highway 16.

Construction of foundations for Goat Creek Bridge was completed.

Ferries

Improvements made to the Usk aerial ferry during 1982/83 resulted in greatly improved service during 1983/84. The Usk reaction ferry saw an average year of maintenance.

DEASE LAKE DISTRICT

Maintenance: Spring saw an increase in the number of frost heaves throughout the district. This was due primarily to a lower than usual snow pack and extreme cold temperatures. These conditions also resulted in a greater than usual number of glaciers on the Atlin Highway, Telegraph Creek Road and Cassiar Highway.

Major crack sealing and patching programs were carried out over 163 km of Highway 37 from Dease Lake to Blue River.

Annual maintenance was once again undertaken throughout the district; concentrating on surface maintenance on all gravel roads, ditching, brushing, enhancement of drainage systems and rest area maintenance. The minor betterment program concentrated heavily on frost heave repair, glacier prevention, regravelling and ditch construction throughout the various foreman areas. Calcium chloride for the purpose of dust control was once again applied to 145 km of the Cassiar Highway.

Construction: Three road construction projects were completed during the 1983/84 year. In spite of very poor soil conditions and rainy weather; a 5.6 km section of the Cassiar Access Road was constructed and surfaced to a 10 m top. Under direction of the Terrace construction branch, an eight km section of Highway 37 was reconstructed from the Blue River Bridge to Mud Hill. This work entailed horizontal and vertical changes to the old alignment and involved moving in excess of 370,000 cubic metres of material.

The Atlin Highway was reconstructed from the Surprise Lake Intersection north, for a distance of four km. Right-of-way clearing has been completed from the Atlin Townsite to the Yukon Border, 53 km.

Bridges

The district bridge crew once again completed washing, cross-tie replacement, decking and Bailey repairs to all major structures within the district. A 5050 mm x 3330 mm x 28 m multiplate was installed at Oweegee Creek which required 580 man-hours. A 4270 mm x 3070 mm x 30 m multiplate was erected at Hitchcock Creek on the Atlin Highway; requiring 370 man-hours to complete.

The old Cottonwood River Bailey Bridge was replaced with a full width 11.07 x 67.66 steel stringer bridge; by contract.

Emergency repairs were undertaken on the Blue River Bailey Bridge when the inside endpost and panel were sheared off by a transport truck. In spite of the -40°C temperatures, repairs were completed by the district crew, limiting the road closure to a six hour period.

A reinforced concrete pad was placed in the bottom of the Durham Creek multiplate during September, 1983. The bottom plates of this 4270 mm x 3650 mm diameter plate had worn through. The repair involved placing 40.4 cubic metres of concrete on the pipe floor to secure the plate.

Buildings

A new fuel shed was completed in the Dease Lake yard. New heating systems were installed in the Good Hope Lake and Dease Lake shops. Upgrading of the lighting facilities in the Bob Quinn Lake yard was completed along with a complete renovation of the Tatogga Lake office/assembly room.

Winter

Crews were kept busy with annual snowfall removal and freeze/thaw cycles throughout the year. Three avalanches during January resulted in short road closures of Highway 37 in the Bob Quinn Lake area. Maintenance crews at Tatogga Lake and Bob Quinn Lake were taxed heavily when unseasonal rains were deposited on compact snow during December and January.

Unusually heavy rains during mid-November brought about a major gravel bridging program from Thomas Creek to Deltaic Creek. This work was completed by the use of Ministry and hired equipment; covering various locations over the 100 km section.

SMITHERS DISTRICT

Roads

Maintenance: A lower than average snow pack and milder than normal weather allowed for an early start on spring of 1983 road improvements. Considerable regravelling was carried out on district roads in February and March.

Early summer hot weather assisted in pavement repairs. A large machine patching program was carried out on Yellowhead Highway 16 throughout the district. A wet, late summer slowed up this program somewhat, but this was made up by an exceptionally early start in the spring of 1984, allowing for completion of the program.

A major machine brushing program was completed this year showing considerable improvements to rights-of-way throughout the district.

Construction: Major widening and strengthening programs were carried out on the secondary highway network in the Smithers area in preparation for paving by contract of 34.1 km.

In conjunction with paving program, a realignment of Yellowhead Highway 16 four km east of Smithers eliminated two severe curves with a major accident history.

In cooperation with the Ministry of Forests, who assisted with right-of-way clearing, the district constructed 4.6 km of the Salmon River Road in the Hazelton area. This reconstruction eliminated a very hazardous section of road along the Skeena River.

Five kilometres of Kitwancool Access Road and village streets were widened and gravelled in preparation for paving by contract.

Fencing contracts and materials supplied to ranchers for fencing allowed for the completion of seven kilometres of right-of-way refencing on the Yellowhead Highway 16.

Bridges

District crews removed and relaunched a Bailey bridge on the Kitwancool access road to allow for the construction by contract of a new structure. Ongoing maintenance and inspections were carried out on all district bridges.

Concrete deck overlays were placed on Hynes and Canyon Creek Bridges by local contract.

BURNS LAKE DISTRICT

Roads

Maintenance: The winter of 1983/84 was warmer than normal with many freeze-thaw cycles resulting in a high use of chemicals for ice removal.

Dust control was not a major problem because of the unusually wet summer months. Lignosulphonate was once again used when necessary for dust control.

Cracksealing was done on a large portion of Topley Landing Road 118, Yellowhead Highway 16 and North Francois Highway 35.

Major machine patching was undertaken on Highway 16 in March. Machinery and hand brushing was carried out on the main roads improving sight distance.

Construction: 27 inch guardrail was placed on Forsyth Road in potentially dangerous location.

10 km of district roads received a graded aggregate seal which is holding up extremely well.

Many district side roads were ditched and gravelled.

Fencing was done on 3 km of Yellowhead Highway 16 under Schedule II.

Bridges

New curbs were placed on Burns Lake Trestle Q1027 and Pleasant Valley Q1409 under contract.

The hand rails on Burns Lake Trestle Q1027 were sandblasted and painted under contract.

The hand rails on Pleasant Valley Bridge Q1409 were sent to Vancouver and were sandblasted and galvanized under contract.

The Carrol No. 2 Bridge Q6648 was severely damaged by heavy logging trucks and required extensive repairs. Timbers for this were acquired from the local mills.

A complete inspection was undertaken on all bridges including load capacity ratings for all timber structures.

Ferries

Extensive logging was undertaken on the south side of Francois Lake resulting in many logging trucks using the Omineca Princess. Francois Lake froze over but the ice was not thick enough to impede the ferry. Dock repairs were undertaken as necessary to both the old and new terminals.

REGION 6

(B.A. L'Hirondelle, P. Eng., Regional Director Highways, Nanaimo)
Nanaimo, Saanich, Port Alberni and
Courtenay Districts

NANAIMO DISTRICT

Roads

Maintenance: All area foremen achieved acceptable goals in maintenance activities, with special emphasis on scheduling increased productivity was obtained. The minor betterment program produced upgrading of feeder routes through built up areas where traffic density was high, and shoulder widening provided for pedestrian traffic as required.

Snowfall was very light and as a result the district was able to increase its maintenance minor betterment operations with 40 km of road improved, widened, ditched and regravelled. It carried out chip seal operations on a number of roads covering 10 km.

A new pedestrian underpass was constructed under the Island Highway at Northfield Road, and the highway widened to provide a left turn lane northbound into Northfield Road. Reconstruction and paving was completed on a number of roads notably Riverside Road, Quennell Road, South Shore Road, Berry Point Road and Sylvester Road, a total of 6.7 km. Recap paving on 16 km of road was completed.

The district participated with the City of Duncan and the Municipality of North Cowichan in a landscape program on the Trans Canada Highway. A Ministry landscape program was completed on the Trans Canada Highway south of Duncan between the Koksilah and Cowichan Rivers. A new pedestrian overpass was constructed over the Trans Canada Highway at Koksilah south of Duncan and a new traffic signal installed at Deloume Road, Mill Bay.

Channelization was completed on the Trans Canada Highway at the new Beverly Street junction north of Duncan.

Bridges

Ashburnham Bridge on the South Shore Road was replaced with a concrete box beam stringer, 16.8 m long and 9.8 m wide. The structure was also raised to give a greater water clearance and taking a dip out of the road. Grant Bridge on the Port Renfrew Road was rebuilt using steel stringers salvaged from the Koksilah River Bridge on Trans Canada Highway. The Clem Clem Alitz Bridge was lengthened by one span to prevent erosion.

SAANICH DISTRICT

Roads

Maintenance: The district's maintenance program proceeded according to plan with emphasis placed on road surface treatment throughout the district. This fiscal year approximately 30 km of gravel road was sealcoated which will reduce future maintenance costs and provide an improved travelling surface for motorists. During the month of November near record rainfalls were experienced causing several minor slides and water runoff problems predominately along the west coast, Port Renfrew and Saltspring Island areas. The rains also demonstrated the need for well maintained drainage facilities throughout the road network. Winter maintenance activities were considered light with the exception of a pre-Christmas cold snap bringing record low temperatures to southern Vancouver Island. An early spring and surplus provincial winter funding enabled the district to undertake a major pavement recapping program providing a benefit throughout the district.

The ability of Equipment Services Branch to keep equipment fleet upgraded in recent years is now showing long term gains by reducing the costs of equipment maintenance.

For the second year in a row a reduced number of subdivisions and permits are being processed.

Construction: A total of 22 day labour construction projects were completed by district forces during fiscal year 1983/84. The most notable of these projects were reconstruction and paving of 2.1 km of Millstream Road; construction of the Kirby Creek Bridge approaches, miscellaneous paving contracts for Otter Point Road, Rocky Point Road, recapping of 1.6 km of West Saanich Road, etc.; reconstruction and paving of Happy Valley Road at Winter Road; and miscellaneous projects including minor betterments.

Bridges

A general bridge maintenance program was completed including redecking, timber repair, painting, etc. The varied complexity of bridges within the district required major repairs to the substructure of the Jordan River Bridge; replacement of the timber superstructure for Shawyer Bridge; widening and superstructure replacement for Channel Bridge across Esquimalt Lagoon; revamping of Channel Bridge on Pender Island. Due to the wet coastal climate the district has now adopted the policy of using treated timber members for replacement of all major timber bridge components.

PORT ALBERNI DISTRICT

Roads

Maintenance: Ditching, gravelling, brushing and patching were the dominant maintenance activities undertaken in the District. A total of 69,920 m of ditch was cleared and constructed, and 298 ha of brush was removed from the right-of-way. M & F stabilizer and liquid calcium chloride were applied to 165 km of gravel road for dust suppression.

Very little snowfall occurred, except in Sutton Pass area Alberni-Tofino Highway 4, where 358 cm of snow was recorded. Three separate overnight storms deposited 50 cm, 45 cm and 50 cm respectively.

Approximately 3.7 km of new roads were constructed by subdivision.

Construction: Day labour during 1983/84 consisted of preparation and paving of 26 roads for a total of 13.5 km, and the placement of asphalt overlays on 9.6 km of paved roads. Port Alberni area gravelled Best and Hector roads for a total of 4.9 km.

Bridges

Forster Creek Bridge was removed and replaced with a large multiplate culvert. Taylor River bridge underwent major structural repairs, and a number of pilings were driven. Maureen and Mercer Bridges were dismantled and reconstructed. All of these bridges are located on Highway 4 west.

COURTENAY DISTRICT

Roads

Maintenance: During the year, emphasis continued on major ditching, machine brushing and pavement upgrading as well as the normal maintenance. The winter was wet and mild but no serious problems occurred. Considerable savings in winter expenditure due to the light snowfall allowed for upgrading work in the latter part of February and March. Approximately 20 km of gravelling with either crush or pit run was carried out in addition to brushing and ditching. In the Courtenay area 5.8 km of new pavement was placed on various area roads. Upgrading and maintenance of 26 km of the Elk River logging road was started as a detour route for heavy vehicles around the old Buttle Narrows Bridge on Highway 28 until a new structure is completed.

Construction: Widening of Highway 19 Courtenay to Black Creek continued throughout the year with completion estimated for April 1984. Paving by contract was approximately 65% with completion estimated for June 1984. In addition to this, various other projects were carried out over the summer and spring of 1984 consisting of 14 km of ditch construction, 21 km of gravelling, 15 km of surface treatment and 22 km of paving within the district. The district also undertook to install some 630 gabions for protection along the bank of the Tsolum River in Courtenay. Phase one of the approaches was carried out in late fall for a new structure over Buttle Lake Narrows on Highway 28.

Bridges

Cleaning, deck and rail repairs were carried out throughout the district as required. In addition to this the Tsulton & Theimer No. 1 were redecked and upgraded. Sacht's Bridge over the Salmon River undertook major repairs and a new deck. The three bridges on the Western Mines Road, Phelwood, Henshaw and Lupin were also redecked and upgraded to carry ore trucks from the mine. A downstream tie-up and dock facility was placed on the Courtenay River for the 17th Street lift bridge to complete our commitments with the Coast Guard. The district constructed approach fills for the new Buttle Narrows Bridge. The project was expected to be completed in June, 1984.

Ferries

The Region 6 Ferries District is administered from Courtenay and is responsible for the operation of 12 certified ferries on the following nine routes:

1. Alert Bay-Sointula-Port McNeill - The M.V. Tenaka crosses Johnstone Strait on a triangle run between Alert Bay on Cormorant Island, Sointula on Malcolm Island and Port McNeill on Vancouver Island. During the annual refit of the "Tenaka" the "Tachek" replaces her on the run. During the fiscal year 13,866 leg trips were made carrying 69,822 vehicles and 237,967 passengers.

2. Quadra Island - The M.V. Quadra Queen II operates across Discovery Passage between Quathiaski Cove on Quadra Island and Campbell River on Vancouver Island. In the summer months she is joined by her sister ship the M.V. Tachek to help alleviate the heavy traffic volumes. During the year 14,713 leg trips were made carrying 270,478 vehicles and 711,989 passengers.

3. Cortes Island - The M.V. Nimpkish operates across Sutil Channel between Whaletown on Cortes Island and Heriot Bay on Quadra Island. Replaced by the M.V. Nicola during refit, 4,152 leg trips were made carrying 32,435 vehicles and 71,137 passengers.

4. Comox-Powell River - The M.V. Princess of Vancouver operates between Little River on Vancouver Island and Powell River on the Mainland making four round trips per day. During the year 77,581 vehicles and 223,458 passengers were carried.

5. Texada Island - The M.V. North Island Princess crosses Malaspina Strait between Powell River and Blubber Bay on Texada Island. Replaced by the M.V. Tachek during refit yearly totals include 6,791 leg trips, 80,319 vehicles and 183,535 passengers carried.

6. Denman Island - The M.V. Kahloke, replaced by the M.V. Klitsa during annual refit crosses Baynes Sound between Buckley Bay on Vancouver Island and Denman Island. During the year 14,620 leg trips were made carrying 204,088 vehicles and 458,286 passengers.

7. Hornby Island - The M.V. Albert J. Savoie crosses Lambert channel from Denman Island to Hornby Island. During the summer months she is replaced by the larger M.V. Klitsa to accommodate the heavy summer traffic. During the year 10,010 leg trips were made with 94,863 vehicles and 218,971 passengers carried.

8. Gabriola Island - The M.V. Quinsam operates between the City of Nanaimo on Vancouver Island and Gabriola Island. Relieved by the M.V. Quinitsa during refit 11,985 leg trips were made with 292,388 vehicles and 693,855 passengers carried.

9. Thetis Island - The M.V. Kulleet operates across Stuart Channel on a triangular run between Chemainus on Vancouver Island, Preedy Harbour on Thetis Island and Kuper Island. During the year 20,402 leg trips were made with a total of 62,814 vehicles and 168,729 passengers carried.

TRANSPORTATION POLICY

REPORT OF THE DIRECTOR OF TRANSPORT POLICY ANALYSIS

G.A. Clark

The Transport Policy Analysis Branch is responsible for developing and coordinating transportation policy for the Province. In addition, the Branch provides financial assistance for development of community airports and for certain services provided by the British Columbia Railway. During 1983/84, the Branch activities concentrated on railway freight and passenger services, aviation services and support facilities, port development, and regional transportation studies. Much of this effort involved matters which fall under federal jurisdiction, but have significant implications for British Columbia.

The Branch coordinated the provincial response to the Western Grain Transportation Act which eliminated the Crow Rate for export grain and stimulated improvements to the railway system in the Province. Under the new legislation, grain producers in British Columbia will receive the same benefits as their counterparts in other provinces, and the BCR has an opportunity to obtain federal assistance for grain transportation. Major improvements are being made to the CN and CP rail systems within the Province, removing the threat of a shortfall in rail capacity for B.C. products.

Representations were made to the Canadian Transport Commission concerning the proposed abandonment of CP Rail's Cowichan Subdivision and VIA Rail's Vancouver Island passenger service. At year-end, the Commission had not issued a decision on the Cowichan line, but had ordered CP Rail and VIA to continue the passenger service for another five years. The Ministry also put forward positions on switching charges, railway costing, and the exclusion of the Canadian railways from anti-trust laws.

Financial assistance was provided to the BCR for uneconomic services which are maintained in the public interest, $2,000,000 for passenger services, and 4,500,000 for support of the operation of the Fort Nelson Extension. Arrangements were also made to ensure that essential freight and supplies were available to the community of Takla Landing during the winter months and after rail service to that community had been discontinued.

Planning for future traffic increases on the rail line to Roberts Bank was monitored for possible effects on communities, road and highway traffic, and the railway system. The Branch monitored progress of the Environmental Assessment Review Panel and its review of the CN's program to double-track its main line through the Thompson and Fraser Canyons. The Ministry also pressed for consideration of alternatives to double-tracking of both railways in the Fraser Canyon and the possibility that capacity requirements could be met by shared use of CN and CP lines through the Canyon. A study will be initiated early in 1984/85 under the sponsorship of B.C., Alberta, Saskatchewan, Transport Canada, the CTC, and the two national railways.

The Branch continued to coordinate the Urban Transportation Assistance Program under which about $9,000,000 in federal funds were spent on grade separations in British Columbia during 1983/84. This federal program came to an end on March 31, 1984, and the Ministry has made a series of representations to the Minister of Transport regarding a replacement program and the need for substantial funding for grade separations in the Province.

In the marine area, the Branch acted on a number of issues relating to port development and shipping. Under new ports legislation, the Western Regional Advisory Council on Ports was created to advise the federal Minister of Transport on port development issues. The Ministry is represented on the Council. The Branch responded to the Port of Vancouver Master Plan, and to a number of proposals for new port facilities in the Province. The Branch also reviewed policy changes proposed by the federal government and affecting shipping and trade from British Columbia.

Transportation needs in the Central Coast region were investigated, and financial assistance was provided to a coastal shipping company in order to maintain service to that region.

In the aviation area, the Ministry made representations to the Canadian Transport Commission and the Minister of Transport on several air carrier licenses and aviation policy issues. Interventions on air carrier applications involved services across northern British Columbia, in the interior of the Province and on Vancouver Island. The Branch responded to proposed changes in the Aeronautics Act and to legislation creating the Canadian Aviation Safety Board. It encouraged the CTC to undertake a broad investigation of air service needs in the Prince Rupert - Prince George - Dawson Creek corridor and assisted CTC staff in conducting that review. With other ministries, and also undertook reviews of policy and management with respect to medical heliports and other airports on Crown land.

The Branch administers the Air Transport Assistance Program, which is a grant-in-aid program designed to promote the development of air transport services in the Province by assisting in the development of community airports and related facilities. During 1983/84, the program staff received and reviewed eight new applications for capital assistance. Grants were issued for ten projects as outlined in the following table. Staff provided technical assistance where required by the recipients of the grants, and provided advice and assistance to other communities which are planning improvements to local airports. At the present time there are 37 communities requesting a total of approximately $21,000,000 in financial assistance for airport projects.

The Branch continued to provide financial assistance to the British Columbia Aviation Council in support of its services.

Air Transport Assistance Program

1983/84 Grants Awarded

Recipient	Award	Project
Atlin District Board of Trade	$500,000 $20,000	Complete 1,230 m gravel runway and apron Install hydro power
Capital Regional District	$ 8,800	Improvements to the helipad on Mayne Island
Columbia-Shuswap Regional District	$20,0000	Construct access road and enlarge the apron at the Revelstoke airport
Denny Island Airport Society	$500,000 $24,000	Extend runway at 900 m Topographical survey, airport design
Dease Lake Airport Society	$815,000	Pave 1,800 m runway and apron
District of Houston	$50,000	Install fuel system and complete hydro installation
Village of Lillooet	$50,000	Install water system and hydro power
Village of Oliver	$36,300	Pave 250 m overrun
Village of Pemberton	$50,000	Install hydro and telephone services
Village of Vanderhoof	$90,000	Expand and pave apron
TOTAL 1983/84 Grants	$1,964,130	

Additional work was completed on regional studies for northwest B.C. and Vancouver Island. The branch investigated transportation requirements in northwest B.C. and developed cost estimates for road, rail, and port facilities as input to the inter-ministry program on development potential in the region. B.C. Research Council prepared traffic forecasts for freight and passenger traffic on Vancouver Island as a further step in the Vancouver Island transportation program.

REPORT OF THE DIRECTOR OF ENGINEERING INSPECTION

F.H. Christensen, P. Eng.

This Branch is the regulatory authority administering the Railway Act and the Pipeline Act. Responsibilities include processing construction applications, inspecting pipelines, railways, aerial tramways and certifying operating personnel for railways and aerial tramways.

In addition, the Branch is represented on several Canadian Standards Association Committees and Sub-Committees including four Pipeline Committees and the Passenger Ropeways Committee, plus the Environment/Resource/Land Use Working Committee of the Energy Project Co-ordinating Committee and the Crossing and Signals Technical Working Committee.

Projects, new procedures or events of an exceptional nature in 1983/84

(a) Aerial Tramways
- Review of the Snow Avalanche Safety Plan for the British Columbia Railway, Tumbler subdivision.

(b) Pipelines
- Continued construction inspections of the upgraded containment dyke at the existing Liquified Natural Gas (LNG) Peak Shaving Plant at Tilbury Island.
- Attendance at the Vancouver pipeline hearings.
- Review of a proposal to batch natural gas liquids from Taylor to Kamloops through the existing crude oil transmission line of Westcoast Petroleum Ltd.

(c) Railway
- Continued monitoring of the construction, track installation and electrification of the British Columbia Railway's Tumbler subdivision.
- Review and certification of the British Columbia Railway's Electrified Territory Operating Rules.
- Reviewed drawings for four new industrial railways.
- Monitored construction of seven industrial railways.
- Continued the review and development of grade level crossing classification, criteria and construction standards to enhance crossing safety.
- Continued monitoring of the installation and testing of a location, identification and control (LIC) System of train control on the BCR Squamish subdivision.
- Reviewed plans and monitored construction of two rail relocation projects by B.C. Hydro, one along the Central Park line due to the ALRT installation and one in Queensborough.

Aerial Tramway Industry

Scope of Operation - 96 Areas

Installations	Existing	New	Modified	Total*
Triple chairlifts	24	1		25
Double chairlifts	45			45
T-Bars	69			69
Platter lifts	5			5
Handle tows	47	3		50
Rope tows	55	1		56
Reversible tramways (Double)	3			3
Reversible tramways (five industrial & five river crossings)	10			10
Gondolas	2			2
TOTALS	260	5		265

* Note: At present 265 installations appear in our records and of those, 66 were not operating for various reasons during the past year.

Inspections

Annual Inspections	199
Acceptance Tests for New Installations and Modifications	7
Operational Inspections (approximately)	200
Progress Inspections	15
Total Directions Issued	1,882
Average Number Directions per Installation	9.45

Aerial Tramway Accidents

1)	Accidents involving passengers (Includes passengers being struck by carriers, collisions with other passengers, natural hazards or falling from equipment at loading, unloading or on the line)	14
2)	Accidents involving failed components (Includes failures of safety equipment, drive equipment, spring boxes and power source failure)	27
3)	Accidents involving displaced components (Includes chairlift and T-Bar deropements)	24
4)	Others of minor consequence	13
	TOTAL	78
5)	Evacuations of above surface lifts:	
	Standby drive	7
	Rescue teams	2
	TOTAL	9
6)	Injury to passengers:	
	Serious - doctor	2
	First aid	7
	Minor	10

7) One accident involved a passenger's clothing (scarf) being caught around a rope tow haul rope with the passenger being dragged through the safety gate. The passenger was revived by the operator and sent to hospital where she was later released.

Railway Industry

Railways under the jurisdiction of the Ministry of Transportation and Highways:

British Columbia Railway
British Columbia Hydro and Power Authority Railway
British Columbia Harbours Board Railway
Canadian Forest Products Railway
Crown Zellerbach Logging Railway
Byron Creek Collieries Ltd. Railway
B.C. Coal Ltd. Railway
Quintette Coal Ltd. Railway
Vancouver Wharves Railway
Northwood Pulp and Timber Ltd. Railway
and some 57 other industrial railways, plus six recreational Railways.

Scope of Operation

Railway Trackage -

B.C. Railway mainline	2195 km
Yard	597 km
Trader	220 km
B.C. Hydro Railway mainline	126 km
Yard and Spur	103 km
B.C. Harbours Board Railway	38 km
Industrial railways	408 km
TOTAL	3687 km

Major Rail Yards	15 yards
Motive Power -	
Locomotives	194 units
Other	78 units
TOTAL	272 units
Bulk Storage Facilities	58
Road Crossings -	
Public	415
Industrial	68
Farm	234
Access	279
Signalized	95
Applications and Certifications Processed -	
Track	38
Bridges, tunnels and other	23
Road crossings	50
Automatic signalizations	5
Bulk storage facilities	11
Crossings - pipe, wire	42
New railways	4
Special approvals - interchange agreements, rules, tariffs	5
Operating personnel	61
Accidents Reported and Investigated -	
Common carriers	63
Industrial railways	20
NEW INDUSTRIAL RAILWAYS -	
Houston Forest Products	0.64 km
Kimberley Bavarian Society (Recreational Rlwy.)	2.37 km
Quintette Coal Ltd.	9.97 km
Ridley Terminals Inc.	12.43 km

Pipeline Industry

Present Scope	
Major transmission pipelines	2141 km
Gathering and flow and other transmission lines	7751 km
Compressor and pumping stations	264
Liquid natural gas plants	1
Applications Processed	
Pipeline	146
Compressor and pump stations	6 (1011 kw)
Crossings	320
Regulator stations	33
TOTAL	559
Length of pipelines constructed	
Gas	80 km
Oil & multiphase	45 km
Water	4 km
TOTAL	129 km
Inspections	
Pipeline field inspections	464
Pump and compressor station inspections	149
Pipeline failures reported and investigated (see list)	48
TOTAL	661

PIPELINE FAILURES IN BRITISH COLUMBIA FOR PIPELINES UNDER THE PIPELINE ACT

Date	Company	Location	Commodity	Volume Spilled m^3	Reason
83-04-04	Petro-Canada	Beg	Gas		External corrosion on 6" pipeline
83-04-04	Czar	Helmet	Gas		Fire destroyed compressor station
83-04-09	Norcen	Weasel	Oil	3	4" lateral line from Weasel, over pressured stuck pig
83-04-13	Suncor	Blueberry	Gas		Weld cracked on 2" junction of 10" P/L
83-04-25	Esso	Boundary	Water	15	Failure on plastic insert in fresh water injection
83-04-30	Pacific Northern	Summit-Rupert	Gas		Hit by bulldozer
83-05-03	Petro-Canada	Peejay	Oil	0.5	External corrosion on pipeline
83-05-10	Dome	Buick Creek	Gas		External corrosion on 2" sales pipeline
83-05-13	Petro-Canada	Peejay	F. Water		Internal corrosion on 3" water injection pipeline
83-05-17	Pacific Northern	Houston	Gas		Dug into by cat
83-05-23	Petro-Canada	Peejay	Oil	2	External corrosion on 4" group line
83-05-26	Norcen	Milligan	Oil	0.75	Failure of bleed of valve
83-05-30	Suncor	Eagle	Oil	3	Failure of threaded nipple
83-05-30	Inland	Keremeos	Gas		Creek washout
83-05-30	Pacific Northern	Terrace	Gas		3rd party damage
83-05-30	Petro-Canada	Clarke Lake	Gas		Internal corrosion 14" gas gathering line
83-06-15	Esso	Boundary	Water	50	Failure insert liner water inj. line, 2"
83-06-17	Esso	Boundary Lake	F. Water		Internal corrosion
83-06-29	Can. Hunter	Julienne	Gas		Dehydrator building destroyed by fire
83-07-02	Pacific Northern	Summit-Rupert	Gas		Land slide
83-07-02	Suncor	Stoddart	Oil	15	Failure of bleed-off valve
83-08-17	Texaco	Boundary	Oil	10	External corrosion 4" oil pipeline
83-08-23	Union Oil	Peejay	Oil	16	Internal corrosion on 3" pipeline
83-08-26	Inland	Prince George	Gas		Hit by cat
83-08-23	Petro-Canada	Peejay	Oil	3	Oil dumped off production equipment
83-09-14	Esso	Boundary Lake	Oil	Trace	Oil from some other source
83-09-13	Petro-Canada	Peejay	Oil	1	External corrosion in 3" pipeline
83-09-15	Esso	Boundary Lake	F. Water	Trace	Internal corrosion
83-09-16	Petro-Canada	Beg	S. Water		
83-09-16	Texaco	Boundary	Oil	1	External corrosion on pipeline
83-09-28	Esso	Boundary	F. Water		Internal corrosion
83-10-06	Wainoco	Yoyo	S. Water		External corrosion on 2" water inj. line
83-10-19	Petro-Canada	Wolf	Oil	0.5	External corrosion on 3" oil pipeline
83-10-21	Esso	Boundary	Oil	1.8	Valve on separator left open
83-12-04	Petro-Canada	Peejay	Oil	20	External damage on pipe caused split in pipe
83-12-12	Esso	Boundary	Oil	2	Failure of valve
83-12-26	Pacific Northern	Terrace	Gas		Construction damage
84-01-22	Canterra Energy	Laprise	Gas		Hit by cat
84-01-23	Esso Res.	Boundary Lake	F. Water		Internal corrosion
84-02-09	Suncor	Inga	Oil	4.7	Human error
84-02-09	Monsanto	Rigel	Oil	0.2	Hillside shift
84-02-10	Esso	Boundary Lake	Oil	1.3	Hit by cat
84-02-20	Chevron	Ekwan	S. Water	32	Internal corrosion
84-02-28	Chevron	Cabin	Gas		Thermal expansion
84-03-05	Esso	Boundary Lake	Propane		Human error
84-03-16	Petro-Canada	Peejay	Oil	0.5	Human error
84-03-27	Scurry-Rainbow	Eagle	Oil	8	Equipment failure
84-03-29	Esso Res.	Boundary Lake	Gas		External corrosion

Summary of Failures

Gas pipeline failures	17
Oil pipeline failures	21
Water pipeline failures	10
Failures by 3rd party damage	5
Failures by previous damage to pipe	2
Failures by human error	5
Failures by internal corrosion	8
Failures by external corrosion	10
Failures by component failure	5
Failures by environment change	5
Failures by overpressure	2
Failure by fire, miscellaneous	6
TOTAL	48

Volume of oil spilled 80.8 cubic metres

MOTOR CARRIER BRANCH

The activities of this Branch are recorded in the Annual Report of the Motor Carrier Commission published under separate cover.

MOTOR VEHICLE

MOTOR VEHICLE DEPARTMENT

The Motor Vehicle Department is responsible for the licencing and registering of motor vehicles, mechanical inspection and safety standards, monitoring of vehicle weights and dimensions, the determination of ability and fitness of persons to operate motor vehicles, the licencing and recording of vehicle operators, and the support and development of road user and driver improvement programs.

The Department comprises three branches with direct responsibility to the Superintendent of Motor Vehicles. These are Administration and Safety Branch, Vehicle and Drivers Licence Branch, and Standards and Compliance Branch.

A brief summary of activities indicates that the total number of registered vehicles in the 1983 licence year was 2,842,500, an increase of 174,800 or 6.56% over the 1982 total.

Original driver licences issued up to December 31, 1983 were 73,512, a decrease of 8,485 or 10% less than the 1982 total. The total number of licenced drivers as of December 31, 1983 was 2,158,739, an increase of 78,770 or 4% over the 1982 total. There were 1,223,576 male drivers and 935,163 female drivers.

The Motor Vehicle Inspection Program inspected 351,955 vehicles with 79,578 or 22.6% rejected during the year to July, 1983. Between this date and the end of the 1983 calendar year, inspectors were primarily directed at school buses and Motor Carrier Branch inspection requirements.

REPORT OF THE OFFICE OF THE SUPERINTENDENT OF MOTOR VEHICLES

P.K. Jackman, Acting Superintendent of Motor Vehicles

The year 1983 saw a number of decisions being made that initiated the groundwork for a number of changes required to be implemented which changed the role of the Motor Vehicle Department, the most significant being the cancellation of the mandatory inspection program carried out through the inspection stations operated by the Department in Vancouver, Burnaby, Richmond, Victoria and Nanaimo.

Overall, the 1983 year's operation was similar to that experienced in 1982 with a slight increase in both the vehicle and driver population.

VEHICLE LICENCE DIVISION

The Vehicle Licence Division is responsible for the licencing and registering of motor vehicles, the issuance of permits, reciprocity agreements, the collection of revenue under the Motor Vehicle Act, Commercial Transport Act, Social Services Tax Act, Insurance (Motor Vehicle) Act, the Motive Fuel Use Tax Act, and the coordination of licence and insurance programs as they affect the Motor Vehicle Department.

The personalized number-plate program continued to receive wide public acceptance during 1983. At December 31, 1982 a total of 19,217 applications had been processed.

The Vehicle Licence Division controls directly the issuing activity of 111 outlets throughout the Province, and indirectly the licencing function conducted through the Insurance Corporation's agency force that consists of approximately 660 offices. The 111 Government related outlets are comprised of 15 Motor Licence Offices, 25 Government agents and 71 Motor Vehicle Department appointed agents. The 15 Motor Licence Offices are staffed with employees of the Motor Vehicle Department (Ministry of Transportation and Highways) while the government agencies are staffed by employees of the Ministry of Finance, but report to this Division for all motor vehicle issuance.

The Motor Vehicle Department appointed agents are appointed by the Department and consist of credit unions, municipalities and private businesses or individuals. Usually such appointments are made in remote areas of the Province or where the population does not warrant a Motor Licence Office or Government Agency.

VEHICLE LICENCES

The total number of vehicles licenced to December, 1983 was 1,870,124, an increase of 48,428 or 2.66% more than the 1982 total.

Passenger vehicles licenced totalled 1,189,538, an increase of 29,984 or 2.59% more than the 1982 total.

Commercial vehicles licenced totalled 448,356, an increase of 11,986 or 2.75% more than the 1982 total.

Motorcycles licenced were 36,719, an increase of 2,534 or 7.42% more than the 1982 total.

Trailers licenced in 1983 totalled 195,511 of which 33,522 were commercial trailers and 161,989 were utility trailers.

FIELD SERVICE OPERATIONS

The Field Operation consists of:

Motor Vehicle Department Outlets

Abbotsford	North Vancouver
Burnaby	Richmond
Chilliwack	Trail
Surrey	Vancouver - Commercial Drive
Kamloops	Vancouver - Georgia Street
Maple Ridge	Vancouver - MacDonald Street
Mission	Victoria
New Westminster	

Total Motor Vehicle Department Outlets 15

Licence sales outlets operated on behalf of the Department by the Ministry of Finance Government Agents consists of:

Atlin	Kelowna	Revelstoke
Bella Coola	Nanaimo	Salmon Arm
Campbell River	Nelson	Smithers
Cassiar	Penticton	Stewart
Courtenay	Port Alberni	Terrace
Cranbrook	Prince George	Vernon
Dawson Creek	Prince Rupert	Williams Lake
Duncan	Queen Charlotte	
Fort St. John	Quesnel	

Total Government Agents 25

Licence sales outlets operated by Private Sector Agents appointed by the Superintendent consists of:

Agassiz	Granisle	Oliver
Alert Bay	Greenwood	100 Mile House
Armstrong	Hope	Osoyoos
Asheroft	Houston	Parksville
Burns Lake	Hudson Hope	Pemberton
Castlegar	Invermere	Port Alice
Chase	Iskut	Port Coquitlam
Chemainus	Kaslo	Port Hardy
Chetwynd	Keremeos	Port McNeill
Clearwater	Kimberley	Powell River
Coquitlam	Kitimat	Princeton
Creston	Ladysmith	Qualicum Beach
Dease Lake	Lake Cowichan	Salmo
Elkford	Lillooet	Sechelt
Enderby	Lumby	Sidney
Fernie	Mackenzie	Slocan Park
Fort Nelson	Masset	Sooke
Fort St. James	McBride	Sparwood
Fraser Lake	Merritt	Squamish
Ganges	Midway	Summerland
Gibsons	Mill Bay	Tofino
Gold River	Nakusp	Valemount
Golden	New Denver	Vanderhoof
Grand Forks	New Hazelton	

Total MVD Appointed Agents 71

In addition 660 Autoplan Agents, private insurance agents appointed by the Insurance Corporation of British Columbia, are authorized to sell vehicle licences and to perform related vehicle or ownership transactions.

Registered Vehicles at December 31, 1983

	1982	1983	Increase/ Decrease	%
Passenger Vehicles	1,589,574	1,688,572	98,998	6.2
Motor Homes	41,263	44,179	2,916	7.1
TOTAL PASSENGERS	1,630,837	1,732,751	101,914	6.2
Commercial Vehicles:				
Regular Commercial	580,480	612,297	31,817	5.5
(A) Farm Trucks	27,232	30,401	3,169	11.6
(F) Farm Tractors	760	874	114	15.0
(P) Prorate	3,620	3,102	(518)	(14.3)
(T) Logging	2,225	2,356	131	5.9
(X) Industrial	8,982	10,212	1,230	13.7
TOTAL COMMERCIAL	623,299	659,242	35,943	5.8
Commercial Trailers	47,508	50,445	2,937	6.2
Utility Trailers	270,292	290,286	19,994	7.4
Motorcycles	95,764	109,776	14,012	14.6
TOTAL VEHICLES REGISTERED	2,667,700	2,842,500	174,800	6.6

Licenced Vehicles at December 31, 1983

	1982	1983	Increase/ Decrease	%
Passenger Vehicles	1,159,554	1,189,538	29,984	2.6
Commercial Vehicles:				
Regular Commercial	405,597	416,823	11,226	2.8
(A) Farm Trucks	21,346	21,465	119	.6
(F) Farm Tractors	353	289	(64)	(18.1)
(P) Prorate	2,641	2,669	28	1.1
(T) Logging	1,073	1,961	888	82.8
(X) Industrial	5,360	5,149	(211)	(3.9)
TOTAL COMMERCIAL	436,370	448,356	11,986	2.7
Commercial Trailers	32,601	33,522	921	2.8
Utility Trailers	158,986	161,989	3,003	1.9
Motorcycles	34,185	36,719	(2,534)	7.4
TOTAL VEHICLES LICENCED	1,821,696	1,870,124	48,428	2.7

The difference between total licensed vehicles and total registered vehicles is due to the licence with owner concept, e.g., vehicles on dealers' sales lots are not required to be licensed. Some vehicles have been destroyed or removed from the Province but remain registered for six years or until notice is received.

DISTRIBUTION OF MOTOR VEHICLES

The following table provides information concerning the number of licences issued and their locality. This table cannot be regarded as an accurate population count of vehicles in the various parts of the Province as the owners move frequently from one area to another and vehicles are often sold to new owners residing in different localities than the previous owners. The table does, however, provide an indication of how vehicles are distributed throughout the Province.

Motor Vehicle Population Statistics for Licensed Vehicles
as of December 31, 1983

Name	District Code	Passenger Vehicles	Commercial Vehicles	Utility Trailers	Commercial Trailers	Motorcycles
Abbotsford	190	23,963	7,920	3,034	457	893
Agassiz	036	1,947	1,038	326	36	105
Alaska Highway	510	3,067	3,425	1,161	213	107
Aldergrove	191	8,366	4,163	1,433	302	325
Alvin	514	0	1	0	0	0
Armstrong	085	2,494	1,836	582	108	45
Ashcroft	042	1,631	1,273	396	33	80
Barriere	159	947	1,084	298	72	35
Bella Coola	083	487	705	109	32	18
Blue River	161	134	155	39	12	10
Boston Bar	044	329	264	62	8	25
Bralorne	046	73	111	16	0	4
Burnaby	103	70,182	17,545	4,936	3,876	1,857
Burns Lake	048	1,645	1,805	635	149	38
Campbell River	010	9,554	5,353	2,705	165	395
Cassiar Mines	182	343	392	94	6	33
Castlegar	123	4,673	2,379	1,014	80	69
Chase	050	2,857	2,064	842	95	63
Chemainus	017	1,814	1,021	444	67	64
Chilliwack	038	20,014	7,931	3,334	455	906
Clinton	052	617	727	194	59	18
Cloverdale	028	32,281	10,387	4,262	729	976
Courtenay	012	14,386	7,275	3,846	167	857
Cowichan	018	1,827	1,107	515	41	63
Cranbrook	125	8,067	5,358	2,037	310	210
Creston	127	3,960	2,904	1,031	164	141
Dawson Creek	167	5,903	5,890	1,488	521	130
Duncan	019	14,331	6,860	2,891	476	445
Elkford	516	2,337	1,851	709	34	105
Enderby	087	1,959	1,583	472	169	38
Fernie	131	4,546	3,497	1,159	198	115
Fort Nelson	181	1,198	1,525	318	166	43
Fort St. James	185	936	1,095	310	92	21
Fort St. John	169	6,419	7,705	2,070	785	177
Ganges	023	2,813	1,345	395	38	160
Golden	133	2,153	1,934	615	115	89
Gold River	016	648	394	244	5	38
Grand Forks	089	2,853	1,887	633	152	90
Greenwood	091	1,040	1,010	229	76	31
Gulf Islands	513	1,587	967	290	16	120
Haney	032	18,472	6,591	2,952	262	654
Hazelton	054	1,027	1,162	248	90	32
Hope	040	2,431	1,434	390	57	81
Houston	056	1,355	1,578	508	144	59
Hudsons Hope	186	1,684	1,924	524	192	47
Invermere	135	2,402	2,211	598	169	60
Kamloops	157	27,320	14,978	5,583	919	833
Kaslo	137	567	452	131	21	26
Kelowna	093	39,118	15,858	7,126	981	1,024
Keremeos	095	1,348	1,046	294	24	30
Kimberley	139	3,363	2,275	1,021	47	96
Kitimat	058	3,824	2,060	848	73	94

Motor Vehicle Population Statistics for Licensed Vehicles
as of December 31, 1983 - Continued

Name	District Code	Passenger Vehicles	Commercial Vehicles	Utility Trailers	Commercial Trailers	Motorcycles
Ladysmith	021	3,659	1,843	793	54	135
Lillooet	059	1,089	944	215	51	71
Lytton	061	377	380	80	20	36
McBride	171	505	606	137	36	26
Merritt	063	2,823	2,351	889	130	92
Mission	034	9,930	4,164	1,487	136	369
Nakusp	141	866	871	334	44	51
Nanaimo	006	24,655	10,118	4,639	305	940
Natal	143	5	28	0	0	0
Nelson	150	6,487	3,119	1,188	112	121
New Denver	145	458	342	95	8	15
New Westminster Area	003	66,309	15,891	6,554	2,301	2,156
North Vancouver Island	515	7,093	5,389	1,800	98	419
North & West Vancouver	004	70,400	9,351	4,101	764	1,818
Ocean Falls	183	21	27	4	0	0
Oliver	099	2,931	1,733	576	64	67
100 Mile House	065	3,708	3,517	1,116	217	95
Osoyoos	100	2,187	1,214	409	44	64
Parksville	014	4,275	1,819	1,016	53	144
Penticton	112	16,705	7,033	2,914	331	551
Point Roberts, U.S.A.	512	1,983	1,205	192	32	102
Port Alberni	008	9,552	5,250	2,908	113	399
Powell River	175	6,434	3,539	1,967	150	416
Prince George	067	27,231	18,825	6,529	1,303	569
Prince Rupert	069	5,064	2,511	810	132	149
Princeton	114	1,688	1,427	490	55	87
Qualicum	015	3,177	1,428	724	39	83
Queen Charlotte	520	1,128	1,304	308	28	77
Quesnel	071	6,781	5,944	1,897	423	178
Revelstoke	116	3,287	2,528	911	147	84
Richmond	102	86,866	17,037	7,264	773	2,370
Riondel	147	125	66	40	0	1
Salmo	148	853	563	194	22	36
Salmon Arm	118	7,259	4,745	1,890	350	185
Sechelt	173	6,636	3,455	1,214	78	331
Sidney	025	10,108	2,786	1,402	66	358
Slocan	115	657	529	135	16	19
Smithers	073	3,018	2,731	812	156	95
Sooke	026	3,199	1,665	598	50	149
Squamish	177	3,633	1,879	535	112	193
Surrey	029	69,272	21,534	8,274	1,136	2,204
Terrace	075	5,459	4,201	1,333	183	168
Tofino	180	341	2324	82	8	24
Trail	152	9,002	3,843	1,957	169	222
Ucluelet	179	582	490	211	37	43
Vancouver	002	191,284	36,254	7,032	4,765	4,698
Vanderhoof	077	2,815	2,961	884	231	63
Valemount	163	532	647	165	44	26
Vavenby	165	1,324	1,305	457	97	62
Vernon	121	18,272	10,072	3,737	574	434
Victoria	001	102,812	31,337	11,327	1,867	3,544
Wells	079	131	131	37	2	11
Williams Lake	081	6,814	6,903	1,861	497	190
Out/Province	529	444	962	74	1,641	4
Miscellaneous	999	0	0	0	0	0
Total Licenced Vehicles		1,189,538	448,356	161,989	33,522	36,719

Summary of Revenue Collected Under the Motor Vehicle Act,
Commercial Transport Act, All Terrain Vehicle Act,
For the Period of January 1/83 to December 31/83

Revenue Source

	1982	1983
Revenue collected and reported directly to the Motor Vehicle Department	20,043,803.87	19,526,328.15
Licence Revenue accounted through the Vehicle Licence and Insurance Program by the Insurance Corporation on behalf of the Motor Vehicle Department	97,025,534.00	99,284,135.00
	117,069,337.87	118,810,463.15

Social Service Tax is collected on the sale of vehicles. During 1983 the amount of $25,750,536.65 was collected through the Insurance Corporation of British Columbia and accounted directly to the Ministry of Finance.

Motor Vehicle Act - Revenue Source

VEHICLE	1982	1983
Licence Fees:		
Passenger	40,363,922.00	40,158,046.00
Motorcycles	611,597.00	646,118.00
Utility Trailer	2,020,841.00	2,004,746.00
Demonstration - Vehicles	344,093.00	357,064.00
Demonstration - Motorcycles	8,051.00	7,829.00
Transporter	24,617.00	23,368.00
Manufacturer	5,279.00	4,832.00
Repairman	86,336.00	90,815.00
Vintage	7,787.00	7,464.00
Dealers Interim	43,160.00	43,370.00
Personalized	242,482.00	242,012.00
Sub Total	43,758,165.00	43,585,664.00
General Fees:		
New Plate Fee	863,659.00	986,221.00
Notice of Transfer of Ownership	1,815,443.00	2,114,637.00
Duplicate Certificates	260,257.00	284,255.00
New Vehicle Registration	645,205.00	680,722.00
Decal Replacement-Plate Substitution	161,314.00	159,484.00
Search of Vehicle Records	288,508.92	278,751.00
Vehicle Inspection	2,692,961.50	1,575,242.00
Plate Transfer	158,649.00	216,415.00
F R Filing Fee	13,360.00	18,032.82
Sub Total	6,899,357.42	6,313,759.82
Permit Fees:		
Temporary Operation	281,025.00	302,355.00
Temporary Testing & Demonstration	193,570.00	196,988.00
Sub Total	474,595.00	499,343.00
Other:		
Suspense (Not Allocated)	331.01	247.48
Suspense (Refunds)	5,028.57	1,301.46
Miscellaneous	1,327.31	66.93
Exchange Account	7,637.66	11,894.85
Recycling	14,919.85	26,109.34
Sub Total	29,244.40	39,620.06
Total Vehicle Revenue	51,161,361.82	50,438,386.88

Motor Vehicle Act - Revenue Source

DRIVERS	1982	1983
Licence Fees		
Originals	3,565,356.10	3,471,014.89
Duplicates	380,362.00	267,204.40
Industrial Air Certificates	473.00	450.00
Driving School Licences	5,445.00	4,960.00
Sub Total	3,851,636.10	3,743,629.29
General Fees		
Identification Cards	46,762.00	50,023.00
Air Brake Manuals	14,979.25	13,463.50
Driver Examination Medical Appeals	2,400.00	5,350.00
Driver Examination Fee	882,017.00	798,209.00
Driver Licence Assessment	383,090.00	849,169.45
Driver Record Search	19,350.48	15,947.65
Sub Total	1,348,598.73	1,732,162.60
Other		
Driver Licence Overpayments	-	
Sub Total	-	
Total Driver Licence Revenue	5,200,234.83	5,475,791.89
Total Motor Vehicle Act	56,361,596.65	55,914,178.77

Commercial Transport Act - Revenue Source

	1982	1983
Licence Fees		
Commercial	49,303,663.00	51,147,675.00
Trailers	328,541.00	328,400.00
Trailer Floater	201,579.00	227,336.00
Probate & Reciprocity	1,949,581.48	2,237,950.68
Special Agreement Licences	53,319.00	57,022.00
Sub Total	51,836,683.48	53,998,383.68
General Fees		
New Plate	259,714.00	313,713.00
New Vehicle Registration	183,756.00	193,994.00
Decal Replacement	60,640.00	
Plate Substitution		51,626.00
Sub Total	504,110.00	559,333.00
Permit Fees		
Temporary Operation	312,097.50	351,575.00
Temporary Testing & Demonstration	74,741.00	81,530.00
Non Resident Commercial	1,658,967.00	1,564,189.00
Oversize/Overweight & Highway Crossing	2,203,812.86	2,170,333.05
Commercial Trans Trust Account	76,894.00	18,513.00
Sub Total	4,326,512.36	4,186,140.05
Total Commercial Transport Act	56,667,305.84	58,743,856.73

MOTOR VEHICLE DEPARTMENT

All Terrain Vehicle Unit - Revenue Source

	1982	1983
Licence Fees		
Registration Fee	9,164.00	7,735.00
Sub Total	9,164.00	7,735.00
General Fees		
Decal Substitution		
Transfer of Ownership		
Duplicate Certificate		
Sub Total		
Total All Terrain Vehicle Unit	9,164.00	7,735.00
Total Motor Carrier Act	1,146.00	1,194.00

Summary of Revenue Collected

Motor Vehicle Act	56,361,596.65	55,914,178.77
Commercial Transport Act	56,667,305.84	58,743,856.73
All Terrain Vehicle Act	9,164.00	7,735.00
Motor Carrier Act	1,146.00	1,194.00
Sub Total	113,039,212.49	114,666,964.50
Total	113,039,212.49	114,666,964.50

Other revenues collected by the Motor Vehicle Department in conjunction with the licensing programs on behalf of the Ministry of Finance and the Insurance Corporation of British Columbia

Ministry of Finance		
Social Service Tax Act	981,020.31	995,053.12
Motive Fuel Use Tax Act	546,856.40	586,462.19
Sub Total	1,527,876.71	1,581,515.31
Insurance Corporation of British Columbia	2,502,248.67	2,561,983.34
Sub Total	2,502,248.67	2,561,983.34
Total Other Revenues	4,030,125.38	4,143,498.65
Total Revenue Collected	117,069,337.87	118,810,463.15

REFUNDS

Legislation provides for the refunding of licence fees where licence plates are surrendered to the Superintendent. A person who was allocated motor vehicle licence plates for use on a vehicle registered in his name can, upon disposal of the vehicle, retain, destroy or attach the number plates to a substitute vehicle, or surrender them to the Superintendent, together with an application for refund of fees.

Refunds for motor vehicle licence plates are granted on the basis of the unexpired portion of the licence-year, but no refund is made of an amount less than $5.00.

On reassignment of the motor vehicle plates to a substitute vehicle, no refund is granted if the combined licence and insurance fee is less than $5.00.

The following summary sets out the amount of money refunded for the 1983 calendar year.

1983 Refund Statistics - January 1/83 to December 31/83

Type of Refund	Number	Amount
General Refunds		
Motor Vehicle Act		
Passenger	165	1,394.02
Drivers	90	1,901.41
Refund from Suspense	285	1,608.10
I.C.B.C. (Mid Term Changes)	24	230,505.00
Search Fees	362	9,209.94
Personalized Number Plates	293	21,945.00
Drivers Licence Assessment Fee	112	2,865.00
Financial Responsibility Filing Fee	68	752.35
Transporter Plates	8	265.00
Motor Vehicle Inspection	26	4,143.75
Transfer of Outstanding Debts Collection on Behalf of ICBC	181	132,341.96
Demo, Repairer, Manufacturer Cancellations	458	10,469.00
Medical Appeals	52	2,600.00
Prorate - U.S. Exchange	16	7,076.38
Department of Commercial Transport		
Commercial	195	3,647.56
I.C.B.C. (Mid Term Changes)	22	217,201.00
Trailer Floater Plates	17	1,629.00
Weigh Scale General Account	7	634.00
Prorate Fees	132	50,548.19
	2,513	700,736.66
Relinquishment Refunds		
Motor Vehicle Act		
I.C.B.C. (Cancellations)	24	3,001,887.00
Drivers	108	815.00
Department of Commercial Transport		
Commercial		
I.C.B.C. (Cancellations)	24	2,424,728.00
	156	5,427,430.00
All Terrain Vehicle Refunds		
All Terrain Vehicle	4	18.00
	4	18.00
	2,673	6,128,184.66

DRIVERS LICENCE DIVISION

The Driver Licence Division is responsible for the examination of an applicant's ability to safely operate a class of motor vehicle; for the issuance of drivers' licences and British Columbia Identification Cards; for the administration of the driver medical review program; for development and administration of the Driver Improvement Program; for the compiling and recording of accident reports; for the maintenance of driver's individual driving records; and for the licencing of Driver Training School operators and instructors.

In addition to the Motor Licence Issuing Offices located in Vancouver/Fraser Valley communities, Victoria, Kamloops and Trail, the department operates 21 permanent examination centres. Smaller communities throughout the province are serviced through the travelling driver examination units. Driver examination services were provided by 98 Driver Examiners during 1983.

The issuance of drivers' licences is undertaken by Government Agencies, and Motor Licence Issuing Offices and by agents appointed by the Superintendent.

Original driver licences issued during the calendar year totalled 73,512, a decrease of 8,485 or 10% from 81,997 issued in 1982.

British Columbia Identification cards issued during 1983 totalled 17,412, an increase of 15% over 15,085 processed in 1982.

The number of licenced drivers in British Columbia as of December 31, 1983, was 2,158,739, an increase of 78,770 or 4% over the previous year. There were 1,223,576 male drivers and 935,163 female drivers.

DRIVING OFFENCES

The reporting of driving offences under the Criminal Code (Canada), Motor Vehicle Act and Motor Vehicle Act Regulations, continues to supply information for inclusion in the individual driving records of each driver in this Province. Access to these records is available by means of the driver's licence number or by the name of the driver. It is the responsibility of the Driver Licence Division to retain these records and to utilize the information in their assessment of driver records.

OFFENCES COMMITTED UNDER THE CRIMINAL CODE - ALL DRIVERS (INCLUDING JUVENILES), 1980 - 1983

Offences	1980	1981	1982	1983
Under Criminal Code (Canada)				
Causing death by criminal negligence, sec. 203	7	8	7	8
Causing injury by criminal negligence, sec. 204	1	4	2	3
Manslaughter, sec. 219	0	0	0	0
Criminal negligence, sec. 233 (1)	25	39	57	46
Failing to fulfill duty of person having care, charge or control of vehicle involved in accident, sec. 233 (2)	614	649	560	374
Dangerous driving, sec. 233 (4)	538	698	618	547
Driving while ability impaired, sec. 234	6,853	7,342	7,181	6,772
Breath sample not provided, sec. 235	1,736	1,997	2,111	1,948
Driving with more than 80 milligrams of alcohol in blood, sec. 236	8,464	10,193	9,684	8,453
Operating motor vehicle while driver's licence under prohibition, sec. 238	2,291	261	5	0
(Legislation declared ultravires on February 4, 1981)				
TOTAL	20,529	21,191	20,225	18,151

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - ALL DRIVERS (INCLUDING JUVENILES), 1980 - 1983

Offences	1980	1981	1982	1983
Under Motor Vehicle Act				
Driving without a licence, sec. 23 (1), 23 (2)	4,441	6,332	7,715	10,205
Driving without subsisting Motor Vehicle Liability policy, sec. 23 (3)	2,646	5,663	6,452	6,628
Failing to obey restriction on driver's licence, sec. 24 (7), 24 (8)	1,262	1,655	2,129	2,024
Driving without having a driver's licence & liability card in possession at time, sec. 30 (1)	15,051	19,679	22,864	31,313
Driving when right to obtain licence is suspended, sec. 31 (3)	1	10	3	0
Failing to fulfill duty of driver involved in accident, sec. 62	1,181	1,236	1,298	1,383
Using licence belonging to another; refusing to show licence, sec. 64	548	1,471	1,380	963
Failing to comply with instruction of peace officer, sec. 67	-	-	79	274
Driving while prohibited or suspended, sec. 86D7, 88, 92 (9), 94	70	467	1,048	1,626
Failing to stop for peace officer, sec. 92/1	-	-	11	150
Disobeying a peace officer, sec. 119	51	62	83	62
Failing to obey instructions of traffic control signal, sec. 130, 132, 133, 134, 135, 136, 139, 163	50,793	55,911	66,775	69,549
Failing to obey special signs "re" highway construction, sec. 145, 146, 148	2,084	703	621	662
Driving without due care and attention, sec. 149 (A)	9,243	9,787	7,170	7,121
Driving without reasonable consideration for other persons using the highway, sec. 149 (B)	2,552	2,878	2,488	2,269
Driving too fast for road or weather conditions, sec. 149 (C)	4,129	4,316	3,806	3,479
Driving too slowly, sec. 150	253	150	126	139
Speeding, sec. 151	270,095	281,850	312,502	329,168
Speeding in playground or school zone, sec. 152	19,183	18,017	25,705	36,257
Failing to stop on meeting or overtaking school bus, sec. 153	350	344	383	325
Failing to drive on the right, sec. 154	1,702	1,735	1,572	1,702
Infractions of "lane" driving, sec. 155, 156, 157	7,674	8,732	8,282	7,901

* These statistics not recorded before 1982

** New section as of September 1, 1982

NOTE: 1980 and 1981 totals represent only licenced B.C. drivers

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - ALL DRIVERS (INCLUDING JUVENILES), 1980 - 1983 - Continued

Offences	1980	1981	1982	1983
Under Motor Vehicle Act - continued				
Infractions of "passing", sec. 159, 160, 161, 162, 165	8,845	3,791	3,685	3,292
* Following too close, sec. 164	-	4,753	3,822	4,236
Infractions of turning, starting, & directional signals, sec. 166, 167, 189, 169, 170, 170/A, 171-174	5,451	5,638	6,385	6,130
Failing to yield right-of-way, sec. 175, 176, 177, 178, 179	7,418	7,639	6,378	6,707
Not exercising due care "re" pedestrians, sec. 181, 183	2,163	2,400	2,334	2,496
Failing to stop at railway crossing, sec. 186	329	408	435	391
Failing to stop properly at stop sign, sec. 187	19,441	19,176	22,933	23,425
Leaving vehicle improperly parked, sec. 192	18	19	4	860
Backing vehicle illegally, sec. 194	2,961	2,739	2,371	2,590
Improper seating in motorcycle, sec. 195	13	10	21	21
Failing to comply with requirements before moving vehicle, sec. 196	80	75	92	110
Improper control or operation of vehicle in canyon or defile or mountain road, sec. 197	-	-	7	1
Coasting down grade illegally, sec. 198	5	5	5	6
Failing to observe fire vehicle safety, sec. 199, 200	38	30	28	21
Driving over sidewalk, walkway or boulevard, sec. 201	204	217	224	234
Opening door when unsafe, sec. 204	60	42	49	68
Illegal depositing of articles on highway, sec. 205	171	192	170	171
Operating motor vehicle with less than minimum clearance, sec. 206	-	-	1	85
Operating motor vehicle with television set in illegal position, sec. 207	-	-	0	2
Operating motor vehicle without required emergency warning devices, sec. 209	-	-	0	221
Operating an improperly equipped motor vehicle, sec. 216	-	-	0	3,827
Failing to wear seat belt assembly, sec. 217	12,063	18,210	36,596	62,393
Riding motorcycle without safety helmet, sec. 218	613	809	709	732
Driving with more than 80 mg of alcohol in blood, sec. 220.1	-	-	-	1
Refusal to give blood sample, sec. 220.3	-	-	-	0

* Sec. 164 was included with secs. 159, 160, 161, 162 and 165 for the year 1980.
** Sec. 197 was included with sec. 196 for the year 1980.
*** These statistics not recorded before 1982.
**** New section as of September 1, 1982, was included in sec. 196 for the years 1979-1981.
NOTE: 1980 and 1981 totals represent only licences B.C. drivers.

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - ALL DRIVERS (INCLUDING JUVENILES), 1980 - 1983 - Continued

Offences	1980	1981	1982	1983
Under Motor Vehicle Act - continued				
Registration and licence, sec. 3	-	-	87	178
Number plate offence, sec. 12	-	-	5,554	7,453
Change of address and/or name of motor vehicle, sec. 13	-	-	124	257
Transfer of motor vehicle, sec. 16	-	-	60	98
Registration of foreign motor vehicles and trailers, sec. 20	-	-	153	128
Learner not accompanied by adult, sec. 24 (6)	-	-	54	71
Change of address and/or name of driver, sec. 27	-	-	1,147	1,825
Exemption of non-resident drivers, sec. 31	-	-	130	67
Municipal chauffeurs permit, sec. 32	-	-	56	16
Parking prohibited, sec. 188	-	-	237	268
Vehicle stopping prohibited/manner of parking, sec. 190, 191	-	-	1,808	2,770
Pedestrian wrongdoing, sec. 181 (2)	-	-	18	10
Rights and Duty of cyclist, sec. 185	-	-	236	419
Evidence of weight of vehicle or load, sec. 212	-	-	14	2
Repairmans licence, sec. 42	-	-	7	8
Dealer plates, sec. 44	-	-	10	17
Accident reported in 24 hours or 48 hours, sec. 61	-	-	146	141
Misuse of number plates, sec. 63	-	-	83	104
Use of another's licence or permit/failure to permit inspection, sec. 64 (A), 64 (B)	-	-	111	17
Production of motor vehicle licence, sec. 65	-	-	1,632	1,814
Alteration of plates/driver's licence, sec. 68	-	-	84	250
Liability of owner for violation of Act, sec. 76	-	-	443	471
Allowing unlicenced minor to drive, sec. 78	-	-	58	100
TOTAL	453,182	487,151	570,993	648,109

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT REGULATIONS - ALL DRIVERS (INCLUDING JUVENILES), 1980 - 1983

Offences	1980	1981	1982	1983
Under Motor Vehicle Act Regulations				
Loud and unnecessary noise from motor vehicle, Division 7A:01	10,346	4,417	3,318	3,065
* Display/use of number plates, sec. 3.01 - 3.12	-	-	3,909	4,808
* Lamps, sec. 4.01-4.2	-	-	6,742	10,473
* Brakes, sec. 5.01-5.09	-	-	675	953
* Brake regulations, sec. 6.01-6.13	-	-	1,043	1,249
* Other equipment, sec. 7.01-7.14	-	-	3,887	5,858
* Bald tires, sec. 7.161 (1) - 7.161 (4)	-	-	4,040	6,139
* Slow moving vehicles, sec. 78.01-78.04	-	-	67	65
* Equipment kept for sale, sec. 8.01-8.04	-	-	4	19
* Temporary operator permits, sec. 14.01-14.05	-	-	98	72
* Parking violation, sec. 18.01	-	-	108	186
* Oversize/escaping load/studded tires, sec. 19.02-19.05	-	-	1,558	1,902
* Operating without permit, sec. 24.01	-	-	11	13
* No valid inspection sticker, sec. 25.02	-	-	9,059	12,732
** Invalid Class "5" Licence, sec. 30.03	-	-	-	13
* Insecure load, sec. 35.01-35.13	-	-	796	1,232
TOTAL	10,346	4,417	35,315	48,779

* Recording of these statistics began in April 1982.
** These statistics were not recorded before 1983.

NOTE: 1980 and 1981 totals represent only licenced B.C. drivers.

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - JUVENILES ONLY, 1980 - 1983

Offences	1980	1981	1982	1983
Under Motor Vehicle Act				
Driving without a licence, sec. 23 (1), 23 (2)	19	29	57	66
Driving without subsisting Motor Vehicle Liability policy, sec. 23 (3)	12	22	31	56
Failing to obey restriction on driver's licence, sec. 24 (7), 24 (8)	8	5	22	31
Driving without having a driver's licence & liability card in possession at time, sec. 30 (1)	59	85	128	207
Driving when right to obtain licence is suspended, sec. 31 (3)	1	0	0	0
Failing to fulfill duty of driver involved in incident, sec. 62	11	16	18	36
Using licence belonging to another; refusing to show licence, sec. 64	8	10	9	2
* Failing to comply with instruction of peace officer, sec. 67	0	0	4	4
** Driving while prohibited or suspended, sec. 86D7, 88, 92 (9), 94	0	2	2	8
** Failing to stop for peace officer, sec. 92/1	0	0	0	7
Disobeying a peace officer, sec. 119	1	0	1	1
Failing to obey instructions of traffic control signal, sec. 130, 132, 133, 134, 135, 136, 139, 163	287	358	321	321
Failing to obey special signs "re" highway construction, sec. 145, 146, 148	15	3	1	1
Driving without due care and attention, sec. 149 (A)	216	233	166	208
Driving without reasonable consideration for other persons using the highway, sec. 149 (B)	65	54	53	70
Driving too fast for road or weather conditions, sec. 149 (C)	91	86	79	112
Driving too slowly, sec. 150	5	1	2	1
Speeding, sec. 151	2,006	2,267	1,950	2,191
Speeding in playground or school zone, sec. 152	136	161	145	219
Failing to stop on meeting or overtaking school bus, sec. 153	6	8	5	9
Failing to drive on the right, sec. 154	15	33	16	22
Infractions of "lane" driving, sec. 155, 156, 157	57	59	50	49

* These statistics not recorded before 1982.
** New section as of September 1, 1982.

NOTE: 1980 and 1981 totals represent only licenced B.C. drivers.

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - JUVENILES ONLY, 1980 - 1983 - Continued

Offences	1980	1981	1982	1983
Under Motor Vehicle Act - continued				
Infractions of "passing", sec. 159, 160, 161, 162, 165	93	28	21	36
* Following too close, sec. 164	-	53	43	50
Infractions of turning, starting, and directional signals, sec. 166, 167, 189, 169, 170, 170/A, 171-174	36	49	47	34
Failing to yield right-of-way, sec. 175, 176, 177, 178, 179	86	103	73	88
Not exercising due care "re" pedestrians, sec. 181, 183	12	22	17	12
Failing to stop at railway crossing, sec. 186	4	3	2	3
Failing to stop properly at stop sign, sec. 187	181	221	200	198
Leaving vehicle improperly parked, sec. 192	0	0	0	0
Backing vehicle illegally, sec. 194	32	33	32	27
Improper seating in motorcycle, sec. 195	0	0	0	1
Failing to comply with requirements before moving vehicle, sec. 196	1	3	2	1
** Improper control or operation of vehicle in canyon or defile or mountain road, sec. 197	1	0	0	0
Coasting down grade illegally, sec. 198	0	0	0	0
Failing to observe fire vehicle safety, sec. 199, 200	0	0	0	0
Driving over sidewalk, walkway or boulevard, sec. 201	2	1	2	3
Opening door when unsafe, sec. 204	1	0	0	0
Illegal depositing of articles on highway, sec. 205	2	0	1	0
*** Operating motor vehicle with less than minimum clearance, sec. 206	0	0	0	0
*** Operating motor vehicle with television set in illegal position, sec. 207	0	0	0	0
*** Operating motor vehicle without required emergency warning devices, sec. 209	0	0	0	0
*** Operating an improperly equipped motor vehicle, sec. 216	0	0	0	2
Failing to wear seat belt assembly, sec. 217	56	75	110	240
Riding motorcycle without safety helmet, sec. 218	2	5	5	11
**** Driving with more than 80 mg of alcohol in blood, sec. 220/1	-	-	-	0
**** Refusal to give blood sample, sec. 220/3	-	-	-	0
TOTAL	3,527	4,028	3,615	4,384

* Sec. 164 was included with secs. 159, 160, 161, 162 and 165 for the year 1980.
** Recording of these statistics began in April 1982.
*** New section as of October, 1983.
**** Sec. 197 was included with sec. 196 for the year 1980.
NOTE: 1980 and 1981 totals represent only licenced B.C. drivers.

OFFENCES COMMITTED UNDER THE CRIMINAL CODE - JUVENILES ONLY, 1980 - 1983

Offences	1980	1981	1982	1983
Under Criminal Code (Canada)				
Causing death by criminal negligence, sec. 203	0	0	0	0
Causing injury by criminal negligence, sec. 204	0	0	0	0
Manslaughter, sec. 219	0	0	0	0
Criminal negligence, sec. 233 (1)	1	0	3	3
Failing to fulfill duty of person having care, charge or control of vehicle involved in accident, sec. 233 (2)	4	5	0	6
Dangerous driving, sec. 233 (4)	15	22	12	20
Driving while ability impaired, sec. 234	48	51	28	48
Breath sample not provided, sec. 235	2	5	3	4
Driving with more than 80 milligrams of alcohol in blood, sec. 236	36	47	27	24
Operating motor vehicle while driver's licence under prohibition, sec. 238	5	1	0	0
TOTAL	111	131	73	105

(Legislation declared ultravires on February 4, 1981)

ANALYSIS OF LICENCED DRIVERS ON FILE FOR 1983
MALE
CLASSIFICATIONS

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
16	0	0	0	0	0	0	0	0	0	0	9,361	336	88	0	9,785
17	0	0	0	0	1	0	0	0	0	0	14,212	848	119	0	15,180
18	2	0	0	0	52	0	0	5	6	0	17,275	1,383	102	0	18,825
19	102	37	17	3	123	5	3	26	170	31	20,001	2,106	89	0	22,713
20	195	65	30	13	267	16	4	63	371	67	21,386	2,563	80	0	25,120
21-25	3,395	1,243	520	201	3,093	327	130	967	4,200	976	112,839	18,048	409	0	146,348
26-30	5,327	2,675	1,210	556	4,683	760	392	1,927	7,185	2,094	113,277	23,361	372	0	163,819
31-35	5,812	2,443	1,878	716	4,989	933	410	1,735	7,885	2,033	110,130	20,376	195	0	159,535
36-40	6,451	1,365	1,961	420	4,808	797	217	902	6,007	914	100,031	9,692	68	0	133,633
41-45	5,860	801	1,557	246	4,066	549	104	476	3,476	348	77,627	4,532	23	0	99,465
46-50	4,404	466	1,243	158	3,649	414	54	324	2,202	173	66,677	2,841	20	0	82,705
51-55	3,676	319	1,075	113	3,366	347	32	186	1,698	109	66,194	2,148	14	0	79,277
56-60	2,173	149	822	77	2,682	220	17	128	1,242	58	61,472	1,499	21	1	70,561
61-65	896	48	540	20	1,780	122	3	54	808	34	56,595	934	19	0	61,953
66-70	163	8	126	5	456	22	2	12	317	7	50,516	611	10	1	52,256
71-75	13	1	17	2	44	2	1	0	74	1	39,071	230	12	0	39,468
76-80	0	0	2	0	14	0	0	0	10	1	24,652	49	9	0	24,737
81-85	0	0	0	0	0	0	0	0	1	0	11,937	9	7	0	11,954
86-90	0	0	0	0	0	0	0	0	0	0	4,431	2	1	0	4,434
91-95	0	0	0	0	0	0	0	0	0	0	1,460	0	2	0	1,462
96&Over	0	0	0	0	0	0	0	0	0	0	244	0	0	0	244
Unknown	0	0	0	0	0	0	0	0	0	0	102	0	0	0	102
TOTAL	38,449	9,620	10,998	2,530	34,073	4,514	1,369	6,805	35,652	6,846	979,490	91,568	1,660	2	1,223,576

ANALYSIS OF LICENCED DRIVERS ON FILE FOR 1983
FEMALE
CLASSIFICATIONS

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
16	0	0	0	0	0	0	0	0	0	0	5,893	15	8	0	5,916
17	0	0	0	0	1	0	0	0	0	0	10,584	56	13	0	10,654
18	0	0	0	0	0	0	0	0	0	0	14,036	91	16	0	14,143
19	3	2	1	0	1	0	0	0	46	0	17,555	138	15	0	17,761
20	7	0	5	1	6	0	0	2	112	4	19,659	172	12	0	19,980
21-25	139	15	94	12	94	12	1	11	1,440	80	118,094	1,572	72	0	121,636
26-30	181	25	242	21	150	18	4	18	2,059	153	135,108	2,323	71	0	140,373
31-35	150	12	290	27	90	10	1	9	1,673	106	128,844	1,965	42	0	133,219
36-40	105	19	250	22	61	15	0	6	1,077	74	106,853	1,028	16	0	108,526
41-45	71	5	183	11	41	9	0	3	776	22	76,655	488	12	0	78,276
46-50	28	3	142	4	31	3	0	2	478	8	59,572	239	8	0	60,518
51-55	17	2	74	2	36	2	0	1	348	4	54,689	142	9	0	55,326
56-60	10	1	51	0	20	1	0	1	191	3	51,091	78	9	0	51,456
61-65	2	0	24	0	5	2	0	0	162	0	45,276	36	3	0	45,450
66-70	0	0	3	0	1	0	0	0	24	0	34,136	16	0	0	34,180
71-75	0	0	1	0	0	0	0	0	3	0	20,912	8	2	0	20,926
76-80	0	0	0	0	0	0	0	0	0	0	10,189	1	0	0	10,190
81-85	0	0	0	0	0	0	0	0	1	0	4,052	2	1	0	4,056
86-90	0	0	0	0	0	0	0	0	0	0	1,252	0	0	0	1,252
91-95	0	0	0	0	0	0	0	0	0	0	272	0	0	0	272
96&Over	0	0	0	0	0	0	0	0	0	0	23	0	0	0	23
Unknown	0	0	0	0	0	0	0	0	0	0	30	0	0	0	30
TOTAL	713	64	1,360	100	537	72	6	53	8,330	454	914,775	8,370	309	0	935,163

ANALYSIS OF LICENCED DRIVERS ON FILE FOR 1983
MALE AND FEMALE
CLASSIFICATIONS

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
16	0	0	0	0	0	0	0	0	0	0	15,254	351	96	0	15,701
17	0	0	0	0	2	0	0	0	0	0	24,796	904	132	0	25,834
18	2	0	0	0	52	0	0	5	6	0	31,311	1,474	118	0	32,968
19	105	39	18	3	124	5	3	26	216	31	37,556	2,244	104	0	40,474
20	202	65	35	14	273	16	4	65	483	71	41,045	2,735	92	0	45,100
21-25	3,534	1,258	614	213	3,187	339	131	978	5,640	1,056	230,933	19,629	481	0	267,984
26-30	5,508	2,700	1,452	577	4,833	778	396	1,945	9,244	2,247	248,385	25,884	443	0	304,192
31-35	5,962	2,455	2,168	743	5,079	943	411	1,744	9,558	2,139	236,974	22,341	237	0	292,754
36-40	6,556	1,284	2,211	442	4,869	812	217	908	7,084	988	206,884	18,720	84	0	243,159
41-45	5,731	886	1,740	257	4,107	558	104	479	4,252	370	154,282	5,029	35	0	177,741
46-50	4,512	469	1,285	162	3,680	417	54	326	2,680	181	126,249	3,088	28	0	143,223
51-55	3,693	321	1,149	115	3,402	349	32	187	2,046	113	120,883	2,290	23	0	134,603
56-60	2,183	150	873	77	2,702	221	17	129	1,433	61	112,563	1,577	30	1	122,017
61-65	998	48	564	20	1,785	124	3	54	910	34	101,871	970	22	0	107,403
66-70	163	8	129	5	457	22	2	12	341	7	84,852	627	10	1	86,436
71-75	13	1	18	2	44	2	1	0	77	1	59,983	238	14	0	60,394
76-80	0	0	2	0	14	0	0	0	10	1	34,841	50	9	0	34,927
81-85	0	0	0	0	0	0	0	0	2	0	15,989	11	8	0	16,010
86-90	0	0	0	0	0	0	0	0	0	0	5,683	2	1	0	5,686
91-95	0	0	0	0	0	0	0	0	0	0	1,732	0	2	0	1,734
96&Over	0	0	0	0	0	0	0	0	0	0	267	0	0	0	267
Unknown	0	0	0	0	0	0	0	0	0	0	132	0	0	0	132
TOTAL	28,162	9,704	12,258	2,630	34,610	4,586	1,375	6,858	43,982	7,300	1,894,265	99,938	1,969	2	2,158,739

Motor Vehicle Traffic Accident Frequencies - 1971 to 1983**

YEAR	TOTAL VEHICLES	NUMBER OF ACCIDENTS	ACCIDENTS PER 1,000 VEHICLES LICENCED	INJURIES	DEATHS	DEATHS PER 10,000 VEHICLES LICENCED	DEATHS PER 100 MILLION KM	FATAL	FATAL ACCIDENTS PER 100 MILLION KM
1971	1,087,992	59,745	54.9	22,340	636	5.8	4.0	538	3.8
1972	1,164,749	59,996	51.5	23,316	716	6.1	4.3	602	3.6
1973	1,248,422	69,564	56.0	27,709	825	6.7	4.5	698	3.8
1974	1,333,891	84,445	63.3	28,699	844	6.3	4.2	718	3.6
1975	1,349,382	85,601	63.4	25,003	717	5.3	3.5	593	2.9
1976	1,411,380	84,158	59.7	25,239	630	4.5	3.0	541	2.6
1977	1,556,262	115,046	73.9	31,942	718	4.6	3.2	617	2.8
1978	1,682,710	112,635	66.9	33,105	640	3.8	2.7	553	2.3
1979	1,800,486	123,863	68.8	37,809	738	4.1	2.9	628	2.5
1980	1,880,382	143,577	76.3	41,500	811	4.3	3.0	710	2.6
1981	1,809,829	127,831*	70.6	44,123	859	4.7	3.2	761	2.9
1982	1,821,696	111,868*	61.4	33,807	601	3.3	2.5	524	2.2
1983	1,870,124	102,065*	54.6	31,855	607	3.2	3.1	522	2.6

In 1983 there were 522 fatal accidents in which 607 victims were killed. Also, during this year 31,855 victims were injured in 23,089 personal injury accidents.

* The number of accidents in 1981, 1982 and 1983 cannot be compared to previous years because the reporting level for property damage only accidents was raised January 1, 1981 from $200.00 to $400.00. This has significantly reduced the number of accidents reported since 1981.

** Reportable accidents are those where the aggregate property damage exceeds $400.00 or a person is injured or killed. During 1977 a new Traffic Accident Reporting system was introduced and as a result, a higher number of accidents were reported. Prior to 1977 accident data was obtained from driver completed forms. The new system now obtains data from forms completed by the police. Due to the significant change in the way reports were submitted, a comparison between data previous to 1977 and data collected after January 1, 1977 should not be attempted.

Accidents & Victims by Month During 1983

	Accidents				Victims		
Month	Fatal	Injury	Property Damage	Total Accidents	Fatal	Injury	Total Victims
January	32	1,636	6,537	8,205	34	2,299	2,333
February	34	1,637	6,221	7,892	35	2,295	2,330
March	33	1,651	5,905	7,589	36	2,283	2,319
April	37	1,750	5,580	7,367	41	2,533	2,574
May	49	1,939	5,940	7,948	57	2,773	2,830
June	57	2,078	6,283	8,418	70	2,895	2,965
July	57	2,042	6,433	8,532	64	2,937	3,001
August	52	1,956	6,120	8,128	55	2,812	2,867
September	49	1,923	6,417	8,389	59	2,703	2,762
October	44	1,985	6,596	8,625	50	2,770	2,820
November	43	2,103	7,913	10,059	62	2,980	3,042
December	35	1,847	9,031	10,913	44	2,575	2,619
TOTALS	522	22,567	78,976	102,065	607	31,855	32,462

Motor Vehicle Accident Fatal and Injury Victims by Age - 1983

	Fatal Victims				Injury Victims			
Age	Male	Female	Unknown	Total	Male	Female	Unknown	Total
Unknown	9	4	0	13	1,210	810	141	2,161
1	2	3	0	5	51	37	0	88
2	0	3	0	3	55	69	1	125
3	1	0	0	1	84	59	1	144
4	2	0	0	2	84	70	0	154
5	4	2	0	6	98	65	2	165
6-10	12	4	0	16	473	387	4	864
11-15	4	12	0	16	784	696	1	1,481
16	8	3	0	11	590	410	4	1,004
17	9	5	0	14	804	4412	1	1,246
18	18	5	0	23	940	517	1	1,458
19	24	9	0	33	1,118	554	1	1,673
20	21	3	0	24	995	520	2	1,517
21-25	99	14	0	113	3,527	2,005	5	5,537
26-30	46	15	0	61	2,213	1,364	1	3,578
31-35	41	9	0	50	1,495	1,016	4	2,515
36-40	30	6	0	36	1,037	802	0	1,839
41-45	15	7	0	22	695	644	1	1,340
46-50	24	8	0	32	559	487	0	1,046
51-55	14	5	0	19	532	447	0	979
56-60	14	6	0	20	403	433	0	836
61-65	8	5	0	13	333	362	0	695
66-70	16	8	0	24	273	295	0	568
71-75	13	11	0	24	196	225	0	421
76-80	5	7	0	12	128	134	0	262
81-85	4	4	0	8	47	54	0	101
86-90	2	2	0	4	21	13	0	34
91-95	2	0	0	2	6	6	0	12
96 & Over	0	0	0	0	5	7	0	12
TOTALS	447	160	0	607	18,756	12,929	170	31,855

These figures represent drivers, passengers, motorcyclists, bicyclists and pedestrians.

Type of Safety Equipment Used by Drivers in Accidents - 1983

Safety Equipment	Property Damage	Injury	Fatal	Total	%
Harness & Lap Belt	38,586	15,875	180	54,641	58
Lap Belt Only	11,495	5,021	83	16,599	18
Not Used	4,372	3,661	255	8,288	9
None in Vehicle	1,524	1,826	49	3,399	4
Harness Only	973	404	4	1,381	1
Helmet	98	737	31	866	0
Air Bag	18	7	0	25	0
Child Restraint	16	5	0	21	0
Unknown/None	3,985	2,235	61	6,281	7
Other	2,174	876	26	3,076	3
TOTALS	63,241	30,647	689	94,577	100

Type of Safety Equipment Used by Passengers in Accidents - 1983

Safety Equipment	Property Damage	Injury	Fatal	Total	%
Harness & Lap Belt	12,699	6,747	97	19,543	41
Lap Belt Only	8,311	4,582	78	12,971	27
Not Used	3,487	4,200	270	7,957	17
None in Vehicle	1,012	1,115	37	2,164	4
Child Restraint	651	302	4	957	2
Harness Only	372	215	2	589	1
Helmet	17	148	8	173	0
Air Bag	12	10	0	22	0
Unknown/None	1,283	1,034	46	2,363	5
Other	795	410	22	1,227	3
TOTALS	28,639	18,763	564	47,966	100

Number of Vehicles Involved in Accidents by Vehicle Type During 1983

Vehicle Type	Property Damage Accidents	Injury	Fatal	Total Vehicles	%
Passenger Car	103,533	26,861	382	130,776	71
Car and Trailer	662	184	3	849	1
Single Unit Truck, Light	21,656	5,379	181	27,216	15
* Single Unit Truck, Heavy	2,094	399	15	2,508	2
Light Truck/Trailer	398	67	0	465	0
* Heavy Truck/Trailer	458	101	3	562	0
* Tractor Trailer	1,129	327	37	1,493	1
* Tractor Trailer and Pup	195	69	7	271	0
Logging Truck and Pole Trailer	26	10	6	42	0
School Bus	102	34	0	136	0
Public Bus	409	138	5	552	0
Motorcycle	725	2,089	67	2,881	2
Moped	1	18	0	19	0
Bicycle	263	1,543	13	1,819	1
Camper	1,462	409	7	1,878	1
Camper/Trailer	130	44	1	175	0
Motor Home	465	117	5	587	0
Motor Home/Trailer	136	26	1	163	0
Trailer Only	122	24	0	146	0
All Terrain Vehicles					
Four Wheel Drive	288	65	4	357	0
Snowmobiles	5	10	1	16	0
Dune Buggy	1	3	1	5	0
Trail Bike	1	18	1	20	0
Mini Bike	1	1	0	2	0
Swamp Buggy	0	2	0	2	0
Farm Vehicles	31	12	0	43	0
Road/General Const. Vehicles	122	22	2	146	0
Special Vehicles	6	2	0	8	0
Unidentified Vehicles	11,130	434	9	11,573	6
TOTAL	145,551	38,408	751	184,710	100

* These vehicles are defined as weighing 10,900 kg or over

Major Contributing Factors

Contributing factors are those circumstances or events that the attending Police Officer perceives to directly contribute to a traffic accident. The traffic investigation report permits up to three contributing factors or causes to be attributed to each vehicle or driver involved in an accident. These factors are listed in order of importance.

The figures in this set of tables represent only those accidents for which the Police have reported a cause, and with the exception of "alcohol", represent only the first identified contributing factor.

In 1983, 69,406 factors were identified as contributing to 102,065 accidents.

Major Contributing Factors in 1983 Accidents

Contributing Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Human Action	32,165	12,220	186	44,571	64
Human Condition	6,965	4,585	194	11,744	17
Environmental Condition	8,366	2,473	39	10,876	16
Vehicle Condition	1,576	629	10	2,215	3
TOTAL	49,070	19,907	429	69,406	100

Accidents Where Human Action was the Major Contributing Factor

Human Action Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Driving Without Due Care	9,178	4,270	73	13,521	30
Failing to Yield Right of Way	6,319	2,980	11	9,310	21
Backing Unsafely	5,219	194	4	5,417	12
Following Too Closely	2,962	1,297	0	4,259	10
Driving at Unsafe Speed	2,745	1,356	54	4,155	9
Ignoring Traffic Device	1,230	825	10	2,065	5
Improper Turning	1,398	338	2	1,738	4
Cutting In	1,010	220	4	1,234	3
Improper Passing	780	251	4	1,035	2
Driving on Wrong Side	548	301	20	869	2
No Driver	507	44	1	552	1
Failing to Signal	209	59	0	268	1
Pedestrian Error/Confusion	48	79	3	130	0
Failing to Stop for Peace Officer	12	6	0	18	0
TOTAL	32,165	12,220	186	44,571	100

Accidents Where Human Condition was the Major Contributing Factor

Human Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Alcohol	4,840	3,390	156	8,386	72
Driver Inexperience	1,676	755	19	2,450	21
Fell Asleep	187	193	13	393	3
Fatigue	119	95	0	214	2
Unconscious	28	57	2	87	1
Illness	39	47	1	87	1
Drugs (Illegal)	23	18	1	42	0
Physical Disability	25	17	0	42	0
Medication (Legal Drugs)	22	7	0	29	0
Suicide Attempts	6	6	2	14	0
TOTAL	6,965	4,585	194	11,744	100

Accidents Where Environmental Condition was the Major Contributing Factor

Environmental Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Weather Condition	3,962	1,276	24	5,262	48
Wild Animal	1,727	219	2	1,948	18
Visibility Impaired	809	328	2	1,139	10
Obstruction/Debris	457	162	2	621	6
Domestic Animal	515	131	0	646	6
Construction	404	102	2	508	5
(Result of) Directly Preceding Accident	183	72	3	258	2
Pavement in Poor Condition	136	75	1	212	2
Sunlight Glare	93	71	1	165	2
Artificial Glare	60	31	2	93	1
Sign Obstruction	18	6	0	24	0
TOTAL	8,364	2,473	39	10,876	100

Accidents Where Vehicle Condition was the Major Contributing Factor

Vehicle Defect	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Brakes	570	226	3	799	36
Tires	299	133	2	434	20
Steering	117	56	1	174	8
Headlights	66	73	1	140	6
Engine	96	43	0	139	6
Accelerator	79	29	0	108	5
Brake Lights	77	21	0	98	4
Tow Hitch	86	8	2	96	4
Turn Signals	77	17	0	94	4
Oversize Vehicle	59	5	1	65	3
Suspension	21	9	0	30	1
Restraint System	13	3	0	16	1
Modified Vehicle	10	3	0	14	1
Windshield	6	2	0	8	1
TOTAL	1,576	629	10	2,215	100

1983 Traffic Accidents by Police Jurisdictions - Kelowna Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Armstrong	184	3	1.6	52	28.3	129	70.1	3	81
Enderby	169	2	1.2	55	32.5	112	66.3	2	80
Falkland	88	1	1.1	25	28.4	62	70.5	1	36
Kelowna (Rural)	691	12	1.7	183	26.5	496	71.8	14	281
Kelowna (Municipal)	1,730	6	0.4	408	23.6	1,316	76.0	6	533
Keremeos	118	3	2.5	42	35.6	73	61.9	3	66
Lumby	141	2	1.4	43	30.5	96	68.1	2	34
Oliver	255	3	1.2	67	26.3	185	72.5	3	87
Osoyoos	186	2	1.1	36	19.4	148	79.5	2	57
Penticton (Rural)	248	2	0.8	85	34.3	161	64.9	2	127
Penticton (Municipal)	811	0	0.0	182	22.4	629	77.6	0	253
Princeton	368	10	2.7	91	24.7	267	72.6	11	139
Revelstoke	535	6	1.1	125	23.4	404	75.5	9	189
Salmon Arm (Rural)	115	2	1.7	36	31.3	77	67.0	5	128
Salmon Arm (Municipal)	393	5	1.3	99	25.2	289	73.5	6	146
Sicamous	167	4	2.4	37	22.2	126	75.4	6	73
Summerland (Rural)	24	0	0.0	5	20.8	19	79.2	0	8
Summerland (Municipal)	148	2	1.3	22	14.9	124	83.8	2	34
Vernon (Rural)	404	5	1.3	148	36.6	251	62.1	5	215
Vernon (Municipal)	853	1	0.1	178	20.9	674	79.0	1	229
TOTALS	7,628	71	0.9	1,919	25.2	5,638	73.9	83	2,796

1983 Traffic Accidents by Police Jurisdictions - Kamloops Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Alexis Creek	92	1	1.1	21	22.8	70	76.1	1	48
Anahim Lake	34	1	3.0	8	23.5	25	73.5	1	17
Ashcroft	189	1	0.5	38	20.1	150	79.4	1	61
Barriere	115	0	0.0	32	27.8	83	82.2	0	48
Blue River	58	1	1.7	22	37.9	35	60.4	1	30
Chase	226	5	2.2	77	34.1	144	63.7	5	124
Clearwater	158	2	1.3	40	25.3	116	73.4	2	80
Clinton	164	5	3.1	44	26.8	115	70.1	5	61
Kamloops (Rural)	273	3	1.1	81	29.7	189	69.2	4	126
Kamloops (Municipal)	1,996	11	0.5	465	23.3	1,520	76.2	12	632
Lillooet	191	5	2.6	48	25.1	138	72.3	[illegible]	68
Logan Lake	62	0	0.0	17	27.4	45	72.6	0	20
Lytton	115	2	1.8	42	36.5	71	61.7	3	68
Merritt (Rural)	172	3	1.8	62	36.0	107	62.2	4	105
Merritt (Municipal)	171	1	0.6	27	15.8	143	83.6	1	52
100 Mile House	417	4	1.0	81	19.4	332	79.6	4	131
Spences Bridge	62	1	1.6	16	25.8	45	72.6	1	35
Valemount	114	2	1.8	37	32.4	75	65.8	2	70
Williams Lake (Rural)	438	10	2.3	134	30.6	294	67.1	10	217
Williams Lake (Municipal)	532	6	1.1	77	14.5	449	84.4	7	129
TOTALS	5,579	64	1.2	1,369	24.5	4,146	74.3	72	2,122

1983 Traffic Accidents by Police Jurisdictions - Nelson Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Castlegar (Rural)	148	2	1.4	41	27.7	105	70.9	3	72
Castlegar (Municipal)	202	2	1.0	39	19.3	161	79.7	2	60
Cranbrook (Rural)	282	6	2.1	65	23.0	211	74.9	6	96
Cranbrook (Municipal)	487	0	0.0	60	12.3	427	87.7	0	79
Crescent Valley	113	3	2.7	34	30.1	76	67.2	3	52
Creston	376	4	1.1	71	18.9	301	80.0	5	107
Fernie	309	2	0.7	61	19.7	246	79.6	4	101
Field	60	2	3.3	16	26.7	42	70.0	3	32
Fruitvale	107	1	0.9	21	19.6	85	79.5	1	30
Golden	400	7	1.8	84	21.0	309	77.2	9	132
Grand Forks	296	3	1.0	80	27.0	213	72.0	3	115
Invermere	221	3	3.4	34	15.4	184	83.2	3	57
Kaslo	59	2	3.4	13	22.0	44	74.6	2	18
Kimberley (Rural)	131	1	0.8	28	21.3	102	77.9	1	42
Kimberley (Municipal)	120	1	0.8	20	16.7	99	82.5	1	32
Midway	114	3	2.6	18	15.8	93	81.6	3	31
Nakusp	138	1	0.7	30	21.7	107	77.6	1	47
Nelson	187	3	1.6	51	27.3	133	71.1	6	91
New Denver	48	0	0	6	12.5	42	87.5	0	9
Radium	126	1	0.8	23	18.3	102	80.9	2	31
Rossland	138	0	0	22	15.9	116	84.1	0	28
Salmo	133	1	0.8	27	20.3	105	78.9	1	37
Sparwood	199	1	0.5	54	27.1	144	72.4	1	82
Trail (Rural)	83	2	2.4	20	24.1	61	73.5	2	38
Trail (Municipal)	306	1	0.3	38	12.4	267	87.3	1	46
Elkford	111	0	0	31	27.9	80	72.1	0	54
TOTALS	4,894	52	1.0	987	20.2	3,855	78.8	63	1,519

1983 Traffic Accidents by Police Jurisdictions - Prince George Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Burns Lake	199	1	0.5	36	18.1	162	81.4	1	52
Chetwynd	295	3	1.0	53	18.6	229	80.4	5	78
Dawson Creek (Rural)	287	7	2.4	81	28.3	199	69.3	8	139
Dawson Creek (Municipal)	494	0	0	66	13.4	428	86.6	0	90
Fort Nelson	279	4	1.4	67	24.0	208	74.6	4	105
Fort St. James	117	4	3.4	28	24.0	85	72.6	4	39
Fort St. John (Rural)	326	4	1.2	63	19.3	259	79.5	5	97
Fort St. John (Municipal)	449	1	0.2	55	12.2	393	87.6	1	69
Fraser Lake	109	1	0.9	25	22.9	83	76.2	1	54
Hudson Hope	31	0	0	5	16.1	26	83.9	0	5
Mackenzie (Rural)	73	1	1.4	19	26.0	53	72.6	1	31
Mackenzie (Municipal)	118	0	0	17	14.4	101	85.6	0	22
McBride	99	0	0	27	27.3	72	72.7	0	36
Prince George (Rural)	419	10	2.4	121	28.9	288	68.7	11	200
Prince George (Municipal)	2,369	8	0.4	389	16.4	1,972	83.2	8	564
Quesnel (Rural)	421	6	1.4	135	32.1	280	66.5	6	206
Quesnel (Municipal)	386	1	0.3	77	19.9	308	79.8	1	106
Vanderhoof	233	4	1.7	63	27.0	166	71.3	5	107
Wells	30	0	0	7	23.3	23	76.7	0	10
Watson Lake	40	4	10.0	7	17.5	29	72.5	4	12
Unknown	53	0	0	14	26.4	39	73.6	0	20
Tumbler Ridge	89	0	0	21	23.6	68	76.4	0	24
TOTALS	6,906	59	0.9	1,376	19.9	5,471	79.2	65	2,958

1983 Traffic Accidents by Police Jurisdictions - Prince Rupert Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Atlin	20	0	0	4	20.0	16	80.0	0	7
Bella Bella	2	0	0	1	50.0	1	50.0	0	2
Bella Coola	64	0	0	18	28.0	46	72.0	0	27
Cassiar	75	0	0	23	30.7	52	69.3	0	29
Granisle	15	0	0	9	60.0	6	40.0	0	11
Hazelton	157	4	2.5	45	28.7	108	68.8	5	81
Houston	204	7	3.4	51	25.0	146	71.6	8	85
Kitimat (Rural)	32	1	3.1	11	34.4	20	62.5	1	17
Kitimat (Municipal)	184	3	1.6	32	17.4	149	80.0	3	49
Masset	85	1	1.2	16	18.8	68	80.0	1	24
New Aiyansh	19	1	5.3	3	15.8	15	78.9	1	6
Ocean Falls	1	0	0	0	0	1	100.0	1	0
Prince Rupert (Rural)	71	1	1.4	23	32.4	47	66.2	3	28
Prince Rupert (Municipal)	540	3	0.5	90	16.7	447	82.8	3	124
Prince Rupert (C & E)	1	0	0	1	100.0	0	0	0	1
Queen Charlotte (Municipal)	91	3	3.3	28	30.8	60	65.9	3	42
Smithers	305	3	1.0	70	23.09	232	76.0	9	132
Stewart	77	1	1.3	26	33.8	50	64.9	1	38
Telegraph Creek	69	1	1.5	21	30.4	47	68.1	1	31
Terrace (Rural)	214	3	1.4	65	30.4	146	68.2	3	80
Terrace (Municipal)	300	3	1.0	78	26.0	219	73.0	5	98
TOTALS	2,526	35	1.4	615	24.3	1,876	74.3	45	915

1983 Traffic Accidents by Police Jurisdictions - Lower Mainland District RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Abbotsford (Rural)	18	0	0	1	5.6	17	94.4	0	1
Abbotsford (Municipal)	505	0	0	106	21	399	79	0	162
Agassiz	227	5	2.2	56	24.7	166	73.1	5	77
Burnaby	6,130	8	.2	1,418	23.1	4,704	76.7	8	1,898
Boston Bar	118	5	4.2	33	28	80	67.8	9	62
Chilliwack (Rural)	84	0	0	38	45.2	46	54.8	0	58
Chilliwack (Municipal)	1,291	4	.3	342	26.5	945	73.2	4	469
Chilliwack (Township)	5	0	0	2	40	3	60	0	2
Coquitlam (Rural)	235	0	0	49	20.9	186	79.1	0	63
Coquitlam (Municipal)	1,544	4	.3	359	23.2	1,181	76.4	4	493
Maple Ridge (Rural)	239	0	0	63	26.4	176	73.6	0	84
Maple Ridge (Municipal)	967	3	.3	212	21.9	752	77.8	3	299
Hope	483	5	1.0	122	25.3	356	73.7	6	203
Gibsons	251	1	.4	54	21.5	196	78.1	1	61
Langley City	666	2	.3	147	22.1	517	77.6	2	211
Langley (Township)	1,105	7	.6	332	30	766	69.4	8	513
Mission (Rural)	159	1	.6	40	25.2	118	74.2	1	54
Mission (Municipal)	543	1	.2	121	22.3	421	77.5	1	178
North Vancouver (Rural)	1,313	3	.2	240	18.3	1,070	81.5	3	294
North Vancouver (District)	1,504	1	.1	291	19.3	1,212	80.6	1	366
Pemberton	94	1	1	29	30.9	64	68.1	1	46
Port Coquitlam	647	1	.2	158	24.4	488	75.4	1	218
Richmond	2,879	5	.2	747	25.9	2,127	73.9	5	975
Sechelt	271	1	.4	73	26.9	197	72.7	1	106
Squamish (Rural)	134	2	1.5	35	26.1	97	72.4	3	59
Squamish (Municipal)	266	2	.8	61	22.9	203	76.3	3	84
Surrey	5,666	29	.5	1,613	28.5	4,024	71	29	2,380
Surrey (Rural)	3	0	0	2	67	1	33	0	2
University	275	2	.7	60	21.8	218	77.5	2	78
Vancouver Marine	28	0	0	5	17.9	23	82.1	0	8
White Rock	349	0	0	72	20.6	277	79.4	0	103
Unit "A" Freeway	456	5	1.1	145	31.8	306	67.1	10	234
Unit "B" Freeway	927	6	.7	285	30.7	636	68.6	7	409
Unit "C" Freeway	274	6	2.2	107	39	161	58.8	7	164
Whistler	177	1	.6	33	18.6	143	80.8	3	48
TOTALS	29,823	111	.4	7,451	25	22,271	74.6	128	10,452

1983 Traffic Accidents by Police Jurisdictions - Victoria Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Chemainus	163	0	0	47	28.8	116	71.2	0	72
Colwood	940	5	.5	275	29.3	660	70.2	6	383
Duncan	521	4	.8	146	28	371	71.2	4	199
North Cowichan	326	1	.4	109	33.4	216	66.3	1	167
Gabriola Island	48	1	2.1	16	33.3	31	64.1	1	21
Ganges	138	0	0	55	39.9	83	60.1	0	70
Ladysmith	238	3	1.3	64	26.9	171	71.8	6	93
Lake Cowichan	127	4	3.2	38	29.9	85	66.9	5	58
Nanaimo (Rural)	186	0	0	51	27.4	135	72.6	0	85
Nanaimo (Municipal)	1,676	7	.4	405	24.2	1,264	75.4	8	562
Pender Island	34	0	0	13	38.2	21	61.8	0	16
Shawnigan Lake	212	4	1.9	65	30.7	148	67.4	4	96
Sidney (Rural)	60	0	0	16	26.7	44	73.3	0	21
Sidney (Municipal)	268	0	0	76	28.4	192	71.6	0	111
Sooke	247	1	.4	81	32.8	165	66.8	1	118
TOTALS	5,184	30	.6	1,457	28.1	3,697	71.3	36	2,072

1983 Traffic Accidents by Police Jurisdictions - Municipal Forces

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Vancouver	22,390	29	.1	3,153	14.1	19,217	85.8	30	4,105
Victoria	2,590	2	.1	690	26.6	1,898	73.3	3	872
Saanich	1,833	11	.6	532	29	1,290	70.4	11	722
Central Saanich	220	1	.5	72	32.7	147	66.8	1	102
Esquimalt	355	1	.3	94	26.5	260	73.2	1	119
Oak Bay	232	1	.4	66	28.4	165	71.2	1	82
Delta	1,782	3	.2	379	21.2	1,400	78.6	10	525
Matsqui	1,253	11	.9	387	30.9	855	68.2	6	576
New Westminster	2,130	2	.1	445	20.8	1,692	79.1	3	583
West Vancouver	1,273	1	.1	280	22	992	77.9	1	375
Nelson	256	0	0	43	16.8	213	83.2	0	63
Port Moody	455	1	.2	104	22.9	350	76.9	1	150
TOTALS	34,787	63	.2	6,245	17.9	28,479	81.9	69	8,274

1983 Traffic Accidents by Police Jurisdictions - Courtenay Subdivision Forces

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Alert Bay	35	1	2.9	7	20	27	77.1	1	18
Campbell River (Rural)	216	3	1.4	70	32.4	143	66.2	4	93
Campbell River (Municipal)	493	2	.5	116	23.5	375	76	2	154
Comox	150	0	0	35	23.3	115	76.7	0	49
Courtenay (Rural)	599	6	1	174	29	419	70	6	248
Courtenay (Municipal)	473	0	0	92	19.5	381	80.5	0	126
Gold River	64	0	0	15	23.4	49	76.6	0	20
Parksville	616	10	1.6	164	26.6	442	71.8	13	236
Port Alberni (Rural)	243	5	2.1	75	30.9	163	67	7	131
Port Alberni (Municipal)	526	0	0	101	19.2	425	80.8	0	151
Port Alice	46	0	0	13	28.3	33	71.7	0	18
Port Hardy	234	2	.9	37	15.8	195	83.3	2	48
Port McNeill	163	1	.6	38	23.3	124	76.1	1	60
Powell River (Rural)	127	1	.8	41	32.3	85	66.9	1	56
Powell River (Municipal)	261	0	0	62	23.8	199	76.2	0	85
Quadra Island	65	0	0	2	.5	63	96.5	0	2
Sayward	70	0	0	23	32.9	47	67.1	0	37
Tahsis	58	2	3.4	15	25.9	41	70.7	2	20
Tofino	62	0	0	8	12.9	54	87.1	0	12
Ucluelet	124	3	2.4	34	27.4	87	70.2	7	52
TOTALS	4,605	36	.8	1,122	24.3	3,447	74.9	46	1,616

1983 Traffic Accidents by Police Jurisdictions - Other Police Forces

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
National Harbours Board	25	1	4.0	4	16.0	20	80.0	1	6
Military Police	74	0	0	12	16.2	62	83.8	0	14
CNR Vancouver	1	0	0	1	100.00	0	0	0	1
BCHP Tsawassen	1	0	0	0	0	1	100.0	0	0
BCHP Horseshoe	2	0	0	0	0	2	100.00	0	0
TOTALS	103	1	1.0	17	16.5	85	82.5	1	21

DRIVER IMPROVEMENT PROGRAM

The Driver Licence Division continued the screening of unsatisfactory driving records, to ensure that drivers whose actions become hazardous as the result of alcohol involvement and other dangerous driving practices are either corrected or removed from the highways.

Summary of Action Taken Under Driver Improvement Program - 1983

ACTION TAKEN	
Driving Records Reviewed	77,727
Warning Letters	39,879
Probations	17,576
Interviews Conducted in Victoria	957
Prohibitions from Driving	61,436
Cancelled Driver's Licences (Effective August 1, 1983)	9,816
Reason for Prohibitions	
Section 84 (Unsatisfied Judgment)	46
Section 85 (Prohibition by Superintendent: Fitness and Ability)	404
Section 86(a) (Prohibition by Superintendent: Unsatisfactory Driving Record	9,777
Section 86(b) (Prohibition as a Result of A Suspension Outside B.C.)	31
Section 90 (Court Prohibition,	563
Unsatisfactory Driving Record)	9,777
Section 92 (Automatic Prohibition)	18,706
Section 92/1/3 (3 Year Prohibition for Failing to Stop for a Peace Officer)	97
Section 214 (24 Hour Prohibition)	31,812
TOTAL	61,436

OFFENCES REPORTED TO SUPERINTENDENT	
Alcohol Related Offences	17,862
Total of All Criminal Code and Similar Offences Recorded	18,867
Total of All Offences Recorded	648,189
Juvenile Offences Reported	4,670
Criminal Code Offences Committed by B.C. Drivers Outside B.C.	341
Similar Criminal Code Offences Committed by B.C. Drivers in U.S.A.	301
Motor Vehicle Act Offences Committed by Drivers Residing in B.C. and Licenced in Another Jurisdiction	1,794
Criminal Code Offences Committed by Drivers Residing in B.C. and Licenced in Another Jurisdiction	1,286

ANALYSIS OF SUSPENSIONS, PROBATIONS AND WARNING LETTERS BY AGE GROUP FOR 1982, ALL DRIVERS

Age	Section 82/8 MVA	Section 84 MVA	Section 85 MVA	Section 86(a) MVA	Section 90 MVA	Section 92 MVA	Section 92/1/3 MVA	Section 86(b) MVA	Section 214	Total	Warning Letters	Probation
16	0	0	0	10	13	37	3	0	65	128	0	44
17	0	0	3	53	30	160	1	0	404	651	291	153
18	0	0	5	250	27	421	11	0	1,053	1,767	1,391	699
19	0	0	3	720	29	814	16	1	1,883	3,466	1,948	1,436
20	0	0	4	1,253	28	1,031	9	0	2,116	4,441	2,007	1,728
21-25	0	5	42	4,236	113	4,601	32	8	8,413	17,450	9,114	5,828
26-30	0	11	49	1,433	95	3,347	12	9	5,476	10,432	7,033	3,138
31-35	0	11	39	718	58	2,435	7	2	3,824	7,094	5,580	1,865
36-40	0	7	32	445	37	1,751	1	5	2,777	5,055	4,428	1,209
41-45	0	3	23	247	40	1,288	1	1	1,943	3,546	2,827	656
46-50	0	3	35	158	34	995	4	2	1,304	2,535	1,925	380
51-55	0	2	38	120	19	752	0	0	1,045	1,976	1,364	206
56-60	0	2	41	64	23	537	0	2	733	1,402	977	141
61-65	0	1	36	39	8	299	0	1	414	798	558	60
66-70	0	1	36	26	5	149	0	0	224	441	251	24
71-75	0	0	5	1	2	67	0	0	106	181	135	4
76-80	0	0	1	2	1	15	0	0	29	48	39	4
81-85	0	0	5	1	0	2	0	0	3	11	9	1
86-90	0	0	6	0	0	0	0	0	0	6	1	0
91-95	0	0	1	0	0	0	0	0	0	1	0	0
96 & over	0	0	0	0	0	0	0	0	0	0	1	0
Unknown	0	0	0	1	1	5	0	0	0	7	0	0
TOTAL	0	46	404	9,777	563	18,706	97	31	31,812	61,436	39,879	17,576

Driver Training School Statistics
Licence Issuing Period January 1, 1983 to December 31, 1983

Issuances

	Schools	Operators	Instructors
Licences Issued	99	101	300
Terminations	2	2	27
Suspensions	0	1	0
Reinstatements	0	1	0
Total Active Licences as of December 31, 1983	97	99	273

Instructor Examinations Conducted

Written Examinations	
Passed	71
Failed	31
TOTAL	102
Practical Examinations	
Passed	52
Failed	7
TOTAL	59

Temporary Permits

Original Permits Issued	77
Temporary Instructors as of December 31, 1983	11

$500 Security Bonding

Bonded by Surety	52 x $500 =	$26,000
Security on Deposit (Bonds)	16 x $500 =	$8,000
Security on Deposit (Bonds)	1 x $1000 =	$1,000
Security on Deposit (Term Deposit)	6 x $500 =	$3,000
Security on Deposit (Term Deposit)	2 x $1000 =	$2,000
Security on Deposit (Cash)	22 x $500 =	$11,000
TOTAL SURETY & SECURITY VALUE		$51,000

Revenue

School Licences	99 x $25 =	$2,475
Operator's Licences	101 x $10 =	$1,010
Instructor's Licences	300 x $5 =	$1,500
TOTAL		$4,985

Inspections Conducted

Driver Training Schools	124

THE CERTIFICATION PROGRAM

The Driver Certification Program is offered to persons, schools, firms and businesses involved in the transportation and trucking industry. The privilege of certifying drivers is granted to those companies who meet the standards of the program as set out by the Superintendent of Motor Vehicles.

There have been 160 recognized authorities involved in this program since its inception in 1971. Twenty-two of these companies have withdrawn but 138 are still active, including 4 new companies that were accepted into the program in 1983.

During 1983, liaison visits to recognized authorities were conducted by Supervisory Examiners of the Driver Services staff.

INDUSTRIAL ROADS

The Motor Vehicle Department assumed the responsibility of administering the Highway (Industrial) Act on July, 1980. All drivers of unlicenced vehicles on private Industrial Roads are now licenced by the Superintendent of Motor Vehicles.

During 1983, the Superintendent issued the following Air Tickets and permits:

Original Air Tickets	70
Duplicate Air Tickets	7
Renewal Air Tickets	223
Temporary (60 day) Permits	7

As of December 31, 1983 there were 7,233 licenced off highway drivers.

REPORT OF THE DIRECTOR OF STANDARDS AND COMPLIANCE

P. Toogood, P. Eng.

The Director of Standards and Compliance directs the activities of the Vehicle Inspection Division, the Commercial Transport Division, the Industrial Road Vehicle Program, and the Standards Development Program.

VEHICLE INSPECTION DIVISION

On July 7, 1983, the government announced that it was discontinuing the government operated Vehicle Inspection Program. The decision reduced the number of vehicles presented for inspection during 1983 in comparison to the previous year.

The Vancouver and Victoria Vehicle Inspection Stations closed the first week of September; the Richmond Station closed the third week of October, and the Nanaimo and Burnaby Stations closed the following week.

In 1983, there were 351,955 vehicles inspected in the Victoria, Nanaimo, Vancouver, Richmond and Burnaby inspection stations, of which 79,578 vehicles did not meet the standards and were rejected, and of these, 107 were in such poor mechanical condition that they were not allowed to return to the highway.

During 1983, the inspection staff also inspected 943 salvaged vehicles. Those approved were issued a Certificate of Mechanical Condition.

The staff of the Vehicle Inspection Division also monitor the performance of 48 Authorized Inspection Stations that have been established. The Authorized Inspection Program was set up to provide inspection primarily to commercial trailers; however there are three Authorized Inspection stations which inspect all types of vehicles except buses. Some buses (trolley buses) can only be inspected by the owners. UTA has two operations in Burnaby and Surrey. The third inspection station is the City of Vancouver who inspect their own vehicles. In 1983 three new Authorized Inspection stations were established. There were 6,385 vehicles inspected and approved by Authorized stations.

From January 1 to December 31, 1983, there were 61 permits issued for flashing amber lamps, 15 permits issued to allow the combined installation of siren and flashing red lamps, and two permits issued for the installation of theft alarms.

During 1983, 1,780 school bus permits were issued. This total includes 136 permits issued for new vehicles and 1,644 renewals. Critical Item Roadside inspections were conducted periodically during 1983 throughout the Province. The number of vehicles inspected and rates of rejection are as follows:

Number of vehicles inspected	2,765
Number of vehicles approved	1,018 = 36.9%
Number of vehicles which required repair	1,747 = 63.1%
Number of vehicles removed from road	176 = 10.1%

SUMMARY OF VEHICLE INSPECTIONS - 1983

Inspection Station	Approved	Rejected	Percentage Rejected	Inspections Conducted
VICTORIA (Closed the first week of September, 1983)				
1983	58,775	15,780	21.2	74,555
1982	108,657	30,529	21.9	139,186
VANCOUVER (Closed the first week of September, 1983)				
1983	65,067	17,434	21.1	82,501
1982	115,244	36,565	24.1	151,809
RICHMOND (Closed the third week of October, 1983)				
1983	53,436	14,295	21.2	67,731
1982	89,941	24,569	21.5	114,510
BURNABY (Closed the fourth week of October, 1983)				
1983	78,829	25,619	25.5	100,448
1982	129,776	43,528	25.1	173,304
NANAIMO (Closed the fourth week of October, 1983)				
1983	18,912	6,450	25.4	25,362
1982	31,223	10,810	25.7	42,033

During the inspection of motor vehicles, it was found that 79,578 did not meet the required standards and were rejected. The total number of defects found were 159,801 or two defects for each rejected vehicle.

SUMMARY OF ANNUAL MOTOR VEHICLE INSPECTIONS

	Inspected and Approved					Reinspected and Approved					Free Approved					Total Approved
	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	
Passenger	88,786	53,553	22,119	7,254	171,712	10,320	17,924	11,381	4,403	44,028	388	286	158	133	965	216,705
Commercial	14,859	10,056	3,473	695	29,083	3,365	4,560	2,351	720	10,996	191	66	26	14	297	40,376
Motorcycle	3,444	444	140	16	4,044	184	80	59	14	337	11	11	7	2	31	4,412
Utility Trailer	168	178	57	28	431	108	64	32	43	247	952	869	669	1,922	4,412	5,090
Motorhome	1,093	880	442	11	2,426	208	472	189	22	891	132	139	115	451	837	4,154
Commercial Trailer	353	274	404	159	1,190	95	124	90	106	415	8	8	1	18	35	1,640
Total	108,703	65,385	26,635	8,163	208,886	14,280	23,224	14,102	5,308	56,914	1,682	1,379	976	2,540	6,577	272,377

	Inspected and Rejected					Reinspected and Rejected					Free Rejected					Total Rejected
	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	
Passenger	12,814	22,880	15,046	6,132	56,872	386	959	896	403	2,644	29	66	68	43	206	59,722
Commercial	4,687	6,355	2,897	1,064	15,003	283	403	223	109	1,018	57	80	39	13	189	16,210
Motorcycle	314	235	64	23	636	1	5	3	3	12	2	10	-	-	12	660
Utility Trailer	124	82	52	32	290	5	17	3	6	31	405	205	149	132	891	1,212
Motorhome	279	551	255	29	1,114	3	18	11	12	44	2	-	3	-	5	1,163
Commercial Trailer	132	154	162	114	562	12	5	-	11	28	17	1	1	2	21	611
Total	18,350	30,257	18,476	7,394	74,477	690	1,407	1,136	544	3,777	512	362	260	190	1,324	79,578
Percent	14.4	31.6	41.0	47.2	26.3	4.6	5.7	7.5	9.3	6.2	23.3	20.8	21.0	7.0	16.7	22.6
Presented for Inspection	127,053	95,642	45,111	15,448	283,254	14,970	24,631	15,238	5,852	60,691	2,194	1,738	1,236	2,730	7,898	351,955

AGE CODES: Age 1 - 1979 and later; Age 2 - 1974 to 1978; Age 3 - 1969 to 1973; Age 4 - 1968 and earlier.

Condemned Vehicle Certificates = 107 L.C.B.C. Salvage Vehicles = 943

Summary of Number of Vehicle Defects
Identified by Cause and Model Year
All Inspection Stations
1983 Calendar Year

Code		MODEL YEAR Age 1	Age 2	Age 3	Age 4	Total
1	Motor vehicle licence	361	326	139	75	901
2	Number plates	460	702	565	245	1,972
3	Plate lamp	1,043	3,207	2,367	954	7,571
4	Tail lamps	739	1,761	1,177	673	4,350
5	Stop lamps	1,568	2,958	2,027	940	7,493
6	Turn signals	1,091	2,606	2,219	1,143	7,059
7	Reflectors	302	349	337	176	1,164
8	Horn	499	905	607	330	2,341
9	Windshield wipers	116	442	558	289	1,405
10	Left Window-raiser	121	249	240	109	719
11	Doors, body hood	327	1,515	2,001	1,316	5,159
12	Bumper, mudflaps	131	485	582	187	1,385
13	Headlamps	3,491	5,780	5,265	2,744	17,280
14	Identification lamps	403	655	306	155	1,519
15	Spot lamps	748	604	275	84	1,711
16	Fog lamps	284	956	938	384	2,562
17	Auxiliary lamps	400	482	255	116	1,253
18	Wheel alignment	215	481	366	184	1,246
19	Steering mechanism	2,647	5,926	4,489	2,413	15,475
20	Tires, wheels	2,628	5,420	3,751	1,495	13,294
21	Fuel system	141	267	301	133	842
22	Exhaust, muffler	3,060	7,369	4,478	1,686	16,593
23	Service brakes	3,584	4,860	3,556	1,556	13,556
24	Pedal reserve	280	736	649	300	1,965
25	Brake connections	2,315	5,833	2,967	808	11,923
26	Air or vacuum	233	300	227	83	843
27	Vehicle noise	20	90	120	61	291
28	Parking brake	1,434	2,626	1,546	602	6,208
29	Visibility	1,511	2,369	1,645	631	6,156
30	Driver seat belts	326	737	579	204	1,846
31	Miscellaneous	1,193	1,240	859	427	3,719
	GRAND TOTALS	31,671	62,236	45,391	20,503	159,801

AGE CODES: Age 1 - 1979 and later; Age 2 - 1974 to 1978;
Age 3 - 1969 to 1973; Age 4 - 1968 and earlier.

AUTHORIZED INSPECTION STATIONS

There have been forty-eight Authorized Inspection Stations established to date. In 1983, this Division provided authorization to three companies enabling them to perform inspections.

Three of the forty-eight Authorized Inspection Stations are able to inspect all types of vehicles and forty-five are authorized to inspect trailers only.

The total number of vehicles inspected and approved by the Authorized Inspection Stations from January 1, 1983 to December 31, 1983, was 6,385.

The statistics for these inspections are as follows:

Summary of Vehicle Inspection Results
by Vehicle Configuration and Model Year
All Authorized Inspection Stations - 1982

	Inspected and Approved Age 1	Age 2	Age 3	Age 4	Total
Passenger	637	185	6	1	829
Commercial	652	409	59	11	1,131
Motorcycle	18	11	-	-	29
Utility Trailer	98	9	2	4	113
Motorhome	1	-	-	-	1
Commercial Trailer	1,171	1,315	908	348	4,282
Total	3,117	1,929	975	364	6,385

SCHOOL BUS INSPECTION PROGRAM

Control over the use and operation of school buses engaged in the transportation of students to and from schools in the Province is the responsibility of the Superintendent of Motor Vehicles. The control extends to the setting of minimum standards for the construction and maintenance of school buses and provides for the semi-annual inspection of school buses. These inspections are carried out on behalf of the Superintendent by Area Vehicle Inspectors of the Department.

As a precondition for receiving a School Bus Permit, all school buses must be inspected semi-annually to ensure that standards of construction, safety, health, and repair are being met.

These inspections are carried out by Area Inspectors located at Smithers, Prince George, Dawson Creek, Courtenay, Kelowna, Kamloops, Cranbrook, Williams Lake, and Chilliwack. School buses in Victoria, Greater Vancouver, and Greater Nanaimo areas were inspected at the designated Vehicle Inspection Station before their closure, but are now inspected by specially designated staff. Approval has been received to assign two new Area Inspectors for the Lower Mainland and one to the Victoria area.

Division 11 of the Motor Vehicle Regulations require School Bus Permits to be obtained by every vehicle which operates under contract to the Board of School Trustees for the purpose of transporting children to or from school.

During 1983, the number of renewal permits issued for vehicles to be used as school buses was 1,644 and 136 permits were issued for new vehicles, for a total of 1,780. This is a 4% decrease over the same period last year. Of these permits issued, 34 were cancelled as the result of the sale and transfer of vehicle, or of poor mechanical condition.

During 1983, 136 school buses were involved in accidents; of which 102 resulted in property damage only, 34 accidents resulted in injury to 90 persons, and no accidents resulted in the death of either a student or other person.

AREA VEHICLE INSPECTION PROGRAM

On August 1, 1982, the Vehicle Inspection Division implemented its long awaited programme of 10 Area Vehicle Inspectors.

The first priority for the Area Vehicle Inspector is to provide for the semi-annual inspection and certification for the British Columbia School Bus Fleet, a function which was previously handled from Victoria by provincial tours every six months. However, the Area Vehicle Inspectors are now able to monitor the day-to-day maintenance of the school buses to ensure that they meet the mechanical standards at all times, not just on the anniversary date of their permit. In regards to school buses, the Area Vehicle Inspector is also taking a keen interest in every school bus accident to determine if any mechanical defect caused the accident, or contributed to the severity of the accident or injuries.

The second priority of the Area Vehicle Inspectors is to assure the mechanical condition of the other vehicles commonly used to transport the public, i.e., commercial buses, taxis. Although there is no formal periodic inspection program which these vehicles must adhere to, there are mechanical standards which must be maintained at all times.

As time permits, another area of responsibility is to assure the safe mechanical condition of heavy commercial vehicles.

Each Area Vehicle Inspector has been approved with special test equipment which will allow for the rapid inspection of vehicles in areas such as fleet yards, warehouses, railheads, etc. Not only does this improve the Inspector's efficiency, but it minimizes the inconvenience to the vehicle operator. Also through the Canadian and American Reciprocity Agreements on Vehicle Inspection, which were signed by the Honourable Alex V. Fraser on October 1, 1982, the enforcement of the mechanical standards is no longer limited to British Columbia. Thus we have not ten Inspectors, but hundreds of Inspectors in numerous jurisdictions monitoring the inter-provincial and inter-state carriers.

The Area Vehicle Inspectors work closely with law enforcement agencies performing fatal accident vehicle investigations and inspections of vehicles carrying dangerous goods.

From January 1, 1983 to December 31, 1983, the following inspections were completed by the Area Vehicle Inspectors in the Province of British Columbia:

School Bus Inspections	3,262
Commercial Buses	144
Private Buses	97
Taxi Inspections	481
Accident Investigations	121
Seminars Conducted	25
Commercial Vehicles (Dangerous Goods)	50
Commercial Vehicles (Non-Dangerous Goods)	552

COMMERCIAL TRANSPORT DIVISION

This Division operates 41 permanent weigh scales throughout the Province, located at strategic points along the main highway system. Thirty-seven of the scales are manned on a regular basis with certain border scales being operated on a 24-hour seven-day week basis.

The Division also has 19 portable patrols to monitor commercial vehicles in areas where there are no permanent weigh scales. Portable patrols also monitor logging trucks through weight data compiled and recorded by Ministry of Forests personnel. During 1983 approximately 488,364 loads were monitored through this procedure.

In addition to monitoring and checking commercial vehicles, weighmasters issue various types of permits, such as temporary operation, non-resident, motive fuel use, highway crossing, restricted route, overweight and oversize. They also issue I.C.B.C. policies in conjunction with many of these permits.

Weighmasters are also required to enforce the various statutes pertaining to the operation of commercial vehicles and are empowered to lay charges under the Commercial Transport Act, Motor Carrier Act, Motor Vehicle Act, Highway Act, and the Motive Fuel Use Tax Act. In addition to weighing commercial vehicles Weighmasters check for such items as load security, licences, operating authority, drivers licences, dimensions, insurance, mechanical condition and many other items for compliance.

During 1983 construction was started on the new Sparwood Weigh Scale on Highway 3 in the Crowsnest Area. This new facility will enable the Division to monitor all incoming and outgoing traffic with particular emphasis on incoming foreign vehicles. It is expected that revenues will increase owing to its border location. The location near Sparwood will also improve service to local industry.

Development of the new Vanderhoof Weigh Scale facility at the new junction of Highway 16 and 27 continued in 1983 as part of the highway construction project. Grading and paving were completed as well as yard lighting requirements. Completion of the new facility is anticipated for 1984 which will replace the present Weigh Scale which is inadequate for today's requirements.

The program of installing electronic "OPEN/CLOSED" signs at Weigh Scales is continuing, this program's purpose is to improve highway safety by providing adequate forewarning to the truck driver as to the operating status of the Weigh Scale.

Statistics for the Division for the year 1983 are as follows:

Commercial vehicles checked (excluding logging trucks)	2,131,537
Prosecutions entered	20,347
Violation notices (warnings) issued	6,363

PERMITS ISSUED

Term, short term and single trip (oversize and/or overweight)	52,942
Non-Resident	37,450
Temporary Operation	31,095
Motive Fuel	17,604
Restricted Route	5,344
Highway Crossing	1,065
Special Temporary	398
C.A.V.R.	503
TOTAL PERMITS ISSUED	146,401

REVENUE COLLECTED, 1983 - (Approximate)

Oversize and Overweight Permits	$1,328,330
Non-Resident Permits	1,532,944
Temporary Operation Permits	197,565
Restricted Route Permits	191,734
Highway Crossing Permits	21,485
Special Temporary Permits	1,194
Motive Fuel Permits	578,884
I.C.B.C. Insurance	551,359
C.A.V.R.	3,501
TOTAL REVENUE	$4,406,996

INDUSTRIAL ROAD VEHICLE PROGRAM

Equipment

Section 13 of the Highway (Industrial) Act requires all vehicles operated on industrial roads to be equipped with approved air brake systems. The most common industrial air brake system is referred to as the L-75 system.

Registration of Industrial Road Accidents

During the 1983 period, this office received 45 accident reports, of which 15 were fatal, and 16 were injury producing. This compares to 41 accidents reporting during 1982, of which only two were fatal, and 18 injury producing.

STANDARDS DEVELOPMENT PROGRAM

During 1983, the Province undertook the first engineering investigation, by any jurisdiction in North America, of towing dollies and their handling, stability and braking. Such dollies are becoming increasingly popular in the recreational vehicle field. Not yet recognized by British Columbia, many other jurisdictions permit them. The highway system of the Province, and the demands that it makes on drivers and vehicles, made testing of dollies essential in order to determine whether their use would be acceptable and, if so, what aspects of their construction or operation should be regulated for the safety of highway users. The testing program was funded jointly by Transport Canada and this Ministry, with executive participation by the Canadian Conference of Motor Transport Administrators to ensure dissemination to all provinces of the lessons learned.

With the termination of periodic motor vehicle inspection in the Inspection Areas of the Province, the Motor Vehicle Act was amended to give the Superintendent of Motor Vehicles the power to make regulations respecting standards of safety and repair of motor vehicles and their equipment. The power to appoint as Motor Vehicle Inspectors both Ministry personnel and qualified individuals in the private sector was given to the Superintendent at the same time.

Increasing interest in liquefied propane gas and compressed natural gas as motor vehicle fuels has led to continuing research into the standards required to assure safety, based on field experience with these systems. An internationally recognized decal is required to be carried by all such vehicles to identify them.

REPORT OF THE DIRECTOR OF ADMINISTRATION AND SAFETY

J.F. Phillips

The Director of Administration and Safety directs the Administration and Safety Branch which encompasses a general administrative responsibility with the functions of safety and the transportation of dangerous goods.

Road user safety programs are correlated through the Administration and Safety Branch. The support and direction of these programs is directed to highway safety concerns throughout British Columbia. The Branch is responsible for the distribution of road user safety literature such as pamphlets, bulletins, films, etc. to various organizations and the general public. the continuous sponsorship of the Safety Councils has resulted in infant restraint loaner programs being set up and operated in the interior of the province.

As in the past years, the Program to have the most notable impact on the public safety has been the mandatory seat belt legislation. In the year ending December 31, 1983, there were 62,393 seat belt convictions. Those convictions were in various areas of the province and indicate the cooperation received from the law enforcement agencies. The Motor Vehicle Department believes that the seat belt legislation has contributed noticeably to the decrease in the severity of accidents.

During 1983, the Branch undertook the following projects:

- A review of the fees collected under the Motor Vehicle and Commercial Transport Acts. This involved comparing British Columbia's fees to those of other Canadian provinces for similar licences or services and estimating some of the costs of providing administrative services to the motoring public.

- Documentation of the permit application and enforcement check procedures for the field operations function of the Commercial Transport Division. This involved interviewing staff members to obtain information on the procedures used to implement the various policies administered by this division. The information was flow charted and a description written for each procedure.

- Inventory of available data for the study of traffic accidents. This involved contacting various police departments and ministries to obtain a listing of the type of data collected and used by these organizations that may be useful for studying traffic accidents.

- Coordination of the Data Base Sub-Committee of the Continuing Committee for Traffic Safety. This involved bringing together from various government ministries, a group of technically skilled individuals involved in handling data relevant to the study of traffic accidents for the purpose of discussing the possibility of establishing a joint management information system for the Continuing Committee for Traffic Safety.

- Drafting amendments and preparing a listing of proposed minor amendments to the Motor Vehicle and Commercial Transport Acts. This involved writing proposed amendments and preparing a list of minor amendments in the required form, for submission of Legislative Counsel.

The Administration and Safety Division is proceeding with the development of legislation directed at controlling the transportation of dangerous goods. The program will promote public safety in all areas of the transporting of dangerous goods with an emphasis on the road mode. The program requires that uniform and reciprocal agreements be developed between the provinces and in conjunction with the federal government.

To date interpretative, applicability, and classification procedures; and documentation requirements have been developed.

A draft copy of provincial legislation has been prepared and is currently being reviewed.

An Inter-Ministerial Committee has provided input into the development of the legislation as well as the formative structure of an Administrative Agreement.

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Victoria, 1985